

water for life







reliable, quality water supplies for a sustainable economy

Provincial Inventory of Potential Water StorageSites and Diversion Scenarios (September 2005)



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PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS

Final Report

(2120-042-00)

Prepared for:

Alberta Environment

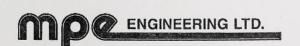
PERMIT TO PRACTICE MPE ENGINEERING LTD.

PERMIT NUMBER: P 3680
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

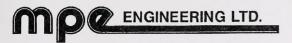
Prepared by:

MPE Engineering Ltd.

September 2005







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Phone: (403)250-1362 Fax: (403)250-1518

Alberta Environment 8th Floor, Oxbridge Place 9820 – 106 Street Edmonton, Alberta T5K 2J6 September 23, 2005 File:N:\21\20\042\00\L02-1.0

Attn: Mr. Garry Bucharski

Capital Planning Section Head

Dear Mr. Bucharski;

Re: Provincial Inventory of Potential Water Storage Sites and Diversion Scenarios

MPE Engineering Ltd. is pleased to provide Alberta Environment the attached Final Report for the above mentioned study. Thank you for the opportunity to undertake this study and we look forward to working with Alberta Environment on future projects.

If you require further information, please contact the undersigned at 219-6456.

Yours truly,

MPE ENGINEERING LTD.

Harry Schoorlemmer, P.Eng.

Project Manager

HS/db Attachment

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ACKNOWLEDGEMENTS

TransAlta Utilities

Various outside parties provided much research assistance in the data collection stage of this inventory. We acknowledge the cooperation and assistance of the following:

Alberta Environment (AENV); Edmonton, Calgary and Lethbridge
Irrigation Branch, Alberta Agriculture Food & Rural Development, Lethbridge
Irrigation Secretariat, Lethbridge
Prairie Farm Rehabilitation Administration (PFRA); Calgary, Regina
Walter Nemanishen, Retired PFRA
National Archives, Edmonton
Alberta Infrastructure and Transportation, Edmonton
Acres International Ltd.
Western Irrigation District, Strathmore
Eastern Irrigation District, Brooks
St. Mary River Irrigation District, Lethbridge
Bow River Irrigation District, Vauxhall
Ducks Unlimited Canada, Camrose

1.0 INTRODUCTION

This study to inventory previously identified, potential water storage sites and diversion systems in the province was implemented by Alberta Environment (AENV) to address "Reliable, quality water supplies for a sustainable economy" as part of the provincial "Water for Life Strategy". The study was awarded to MPE Engineering Ltd. in October 2004

2.0 SCOPE OF WORK

2.1 General

The terms of reference for the inventory required that a "complete inventory of potential reservoir/water storage sites and conveyance systems" be made. The inventory was based on a literature review of previous studies that identified potential sites and no site investigations were conducted. The literature review included Provincial Government departments, PFRA, utilities, local authorities, Irrigation Districts, Ducks Unlimited and files of individuals involved in the water resource field.

Conveyance systems for inter-basin transfers were included in the inventory. AENV recognizes that inter-basin transfers are prohibited by legislation but these were to be inventoried as "this study is intended to summarize historical information...". The terms of reference also required that a provincial map identifying the location of the potential water storage and diversion sites be prepared.

2.2 Specific Requirements

AENV requested that the following specific information be inventoried:

- i) Purpose and description of the project.
- ii) Location and contour plans of the proposal.



- iii) Summary of embankment characteristics including height, side slopes, and crest length.
- Summary of the proposed hydraulic structures including design discharge and physical dimensions.
- v) Reservoir parameters including Full Supply Level, flooded area and storage volume.
- vi) Summary of diversion canals, including location, purpose, dimensions and capacity.
- vii) Summary of historical cost estimates for each proposal, including the year the estimate was made.
- viii) Summary of available hydrology used for the proposal.
- ix) Summary of previous site investigations conducted.
- x) Summary of any licensing information that may be available.

In addition to this information it was agreed at the workshop described in Section 3.0 that the following guidelines for inventorying projects were to be followed:

- i) Minimum storage requirement is 1000 dam³.
- ii) Diversion schemes with capacities of 1.0 m³/s or greater to be included.
- iii) Storage sites downstream of existing developed sites are to be included, where the potential reservoir does not impact on an existing dam.

It was also agreed that:

- i) The cost estimates of projects were not to be escalated to current dollars.
- ii) Potential sites submerged by existing reservoirs would not be inventoried.
- iii) The most recent study found would be used for the inventory of a particular site.
- iv) The option with the greatest potential storage would be inventoried at sites identified with alternative potential storages. (Some reports indicated that the



largest storage alternative was not feasible or not recommended; therefore, in these cases, a smaller storage alternative was selected for the inventory).

3.0 INVENTORY FORMAT

3.1 Data Processing

A "database" methodology had been proposed by MPE Engineering Ltd. to serve as the base method for inventory and storage of the data. This method was adopted as it had the following benefits.

- i) Ease of data entry.
- ii) Consistent data entry.
- iii) Data can be easily summarized and retrieved.
- iv) Data can be easily sorted and filtered.
- v) Data can be easily imported into GIS software.
- vi) Database can be put onto either internal servers or a web site for easy remote access.
- vii) Database can be expanded as additional projects are either found or studied.

To maximize the benefit of the database to the stakeholders, a workshop was convened with the AENV stakeholders, early in the study process. This was done to gain their input into its development. Subsequent to this workshop the database and data report formats were developed within the capability of the *Microsoft Access* software.

The database has also been structured to include key drawings (where available) depicting the general arrangement of the project and key infrastructure. The drawings have been scanned and stored electronically in "pdf" format. The database has been set up with a link to the drawing files to enable viewing from within the database.



3.2 Mapping

The input to the database includes the legal land location as well as the project's latitude and longitude. This information was used to locate the potential projects on river basin maps of Alberta provided by AENV (see Appendix C). The maps are saved in *AutoCAD* 2000 format to enable importation into GIS software. The 10 principal river basins commonly used by AENV were selected for the primary location identification of a project within the database. These river basins are:

- Athabasca
- 2. Beaver
- 3. Bow
- 4. Hay
- 5. Milk
- 6. North Saskatchewan
- 7. Oldman
- 8. Peace / Slave
- 9. Red Deer
- 10. South Saskatchewan

The river basins have also been combined into one master map of Alberta. 72 existing crown owned storage and diversion site locations have been added to these maps. 26 non-crown sites have been included as well, however, many more sites would need to be added in the future if AENV requires all existing sites to be shown on the maps. Locating existing sites was not within the project scope of work.

The hard copy maps included in this report do not display all the information that is available in the electronic file due to clarity of presentation. Appendix C summarizes the mapping information available in the electronic format.



4.0 INVENTORY OF POTENTIAL STORAGE / DIVERSION SITES

4.1 Data Sources

The primary sources of data were existing reports and project files. The cooperation of the various offices of AENV, Alberta Infrastructure and Transportation (INFTRA), Alberta Agriculture Food and Rural Development (AAFRD), Prairie Farm Rehabilitation Administration (PFRA), TransAlta (TA), Ducks Unlimited (DU), Irrigation Districts, local authorities and water resource consulting firms was excellent. In spite of this excellent cooperation, data collection proved to be challenging as many libraries and files were incomplete for various reasons. The most common issues for the larger government departments revolved around the many reorganizations of the departments that have taken place and the related moving and storage of reports and libraries. This led to considerable time requirement to track reports and, in some cases, although studies were known to have been done, reports could not be found.

In the case of PFRA, their related files have been put in storage in either Regina or Edmonton. An attempt was made to uncover the reports in the Edmonton archives with limited success. A retired PFRA engineer was retained to review a listing of PFRA files and projects. This was helpful in identifying projects that could be of interest for the inventory. Based on this review and a review of the inventoried projects it was concluded the significant PFRA projects that would be of interest, had likely been inventoried. Consequently a trip to the Regina office was determined to be unwarranted at this time.

Ducks Unlimited have studied many wetland type storage projects. These projects tend to be small and are specifically targeted at wetland development. DU files are located in their regional offices throughout Alberta. Their methodology for initial investigation of potential wetland sites is quite limited and usually the findings are recorded on 3 or 4 pages. DU was very cooperative and reviewed their files in the Camrose office and forwarded over 60 files of potential interest to MPE for review. Upon review it was



determined that only one of the projects qualified for the inventory. On this basis, it was concluded that the expense of further investigations into the DU files in other offices was not warranted at this time.

The recent Milk River Dam study undertaken by AENV, is not included in the database inventory, but rather studies in the area completed much earlier are in the inventory. This approach was necessary as the recent study is not available to the public at this time. The database can be updated when the report is released.

A general mail-out was made to local authorities across Alberta requesting information of potential storage sites. A few replies were received but for the most part the few projects identified did not qualify for the inventory. The most interest by local authorities in the inventory project, originated from Southern Alberta.

The source location of the data inventoried is given in the database to enable researchers to locate the data background in the future.

4.2 Data Quality

The quality of the data varies considerably and is very dependent on the study effort at the time and documentation that could be found. Often the data is incomplete or conflicting, as further studies were completed at a particular site. Also, some sites have been identified by more than one name. The most recent reports were used, but on occasion these were not found until after earlier reports had been used for the inventory. For the most part where duplication was found, the earlier reports were removed from the database.

The documentation of small storage sites with as little as 1000 dam³ is not very good. Consequently the number of small storage projects included in this inventory is limited.



4.3 Inventory Summary

4.3.1 Use of Database

Appendix A contains a summary of the inventory format and description of the data inputs as to purpose and function. A description of how the database can be used is also provided. This includes how to add new projects as well as describing the types of data searches within the database, that can be undertaken and the report formats that are produced.

4.3.2 Inventoried Projects

A total of 238 projects, consisting of both storage and diversion have been inventoried. In some cases, particularly related to multiple diversion projects, components of the project have been inventoried separately and must be combined together to obtain the information on the complete project. This applies particularly to projects that divert water from one watershed to another with a further diversion to a third watershed.

A summary listing of all the inventoried projects is contained in Appendix B. The enclosed disk includes the entire database, the associated electronic drawing files and the provincial river basin maps with the site locations identified.

5.0 SUMMARY AND RECOMMENDATIONS

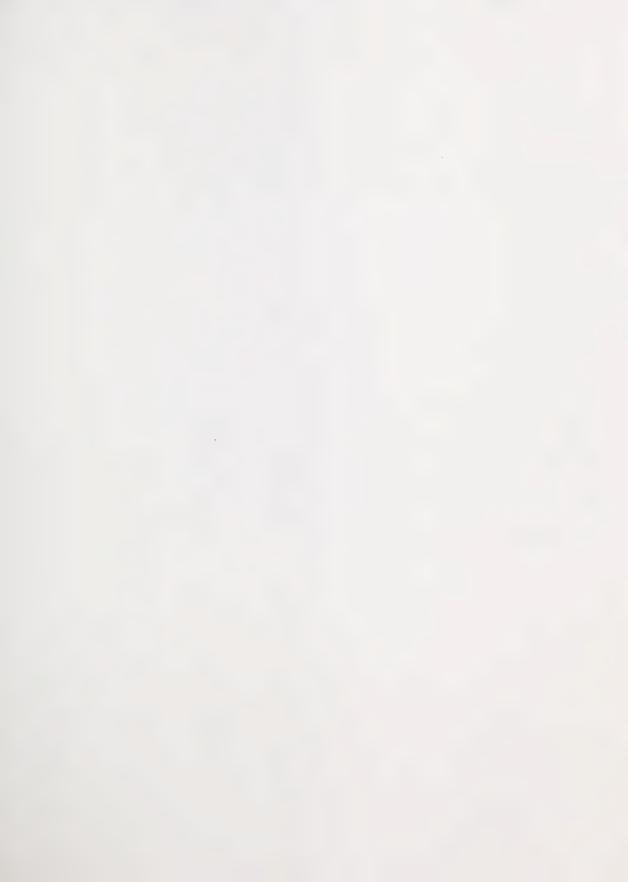
The inventory completed is an exhaustive inventory of potential storage and conveyance sites; however, it cannot be considered "complete". Based on the experience of the consultant team, it is known that other sites have been identified, but documentation of these sites has not been uncovered to date. Therefore, this inventory should be considered to be a "live" database with projects added to it as either the documentation is found or new studies are undertaken.



In particular there are likely many more small storage sites that would meet the minimum 1000 dam³ criteria but which have not been documented to the point that files can be found. Therefore, to obtain this type of data and record it, it is recommended that key agencies that might investigate the potential for sites of this size, be kept aware of this inventory. These agencies should be encouraged to submit their findings to AENV for inclusion of the qualifying projects in the database.

This database should prove to be a valuable source of data to planners to assist in the process of water management, particularly for supply management, as the demand for water grows and climate change impacts occur in the years ahead.







APPENDIX A
Use of Database



APPENDIX A

A.1 System Requirements

The database was created using *Microsoft Access 2000*, which is required to view or edit the inventory. The electronic drawings are in "pdf" format, which requires *Adobe Acrobat Reader* to view. The database and electronic drawings must be copied onto a hard drive with the database *not* set as "read-only" to enable full functionality. The database and the electronic drawings folder must be stored in the same directory to enable viewing of the drawings from within the database. The electronic drawings folder must be named "PDF Drawings".

A.2 Project Inventory – Main Form

The database opens to the Main Form, which provides options to proceed. See Figure A
1. An icon at the top of the form facilitates entering new projects.

The "Search Options" allow the user to search for specific projects or groups of projects by project name keyword or by category. The keyword can be multiple words but must be a single character string, as the database will search for that exact character string. The category search can be executed by specifying one or more of "Project Type", "River Basin", "Client/Owner" and "Constituency".

An abbreviated preview list of the current search appears when the search is executed. Clicking the box to the left of the project name will select the project. The user can then select "View Project" or "Edit Project" to open the Data View Form or Edit Form, which are described in Section A.3 below.

The "Reports" section of the form provides some options for printing inventoried project information. The "Search Result Summary" icon provides a list of projects. The "Search



oject Inventory - Main Form	and the second s					
	Storage Proje ry Database	cts				
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Search Options						
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Keyword Search						
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Acadia Irrigation Dev (Reservoir II		Drumheller-Stettler	Edit Project			
Acadia Irrigation Dev (Reservoir IV		Drumheller-Stettler	Luctroject			
Acadia Irrigation Development 20		Drumheller-Stettler				
Ardley Dam	Red Deer	Innisfail-Sylvan Lake				
Ardley Reservoir Diversion	Red Deer	Innisfail-Sylvan Lake	<u>*</u>			
Record: I	▶ of 238	<u>₹</u> . nf1				
Reports						
Search Result Summary Search Result Details						
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Result Details" icon provides a complete printout of all project information. Clicking one of the print icons opens a print preview screen from which printing can be executed.

A.3 Data View and Edit Forms

Upon selection of one of the "View Project" or "Edit Project" options from the Project Inventory – Main Form, the database will open the Data View or Data Edit Form (see Figure A-2). The Data Edit Form is the same form as the Data View Form, with the only difference being the ability to make changes to the data. A blank data entry form will open if the user is entering a new project. These forms contain all the data for each inventoried project.

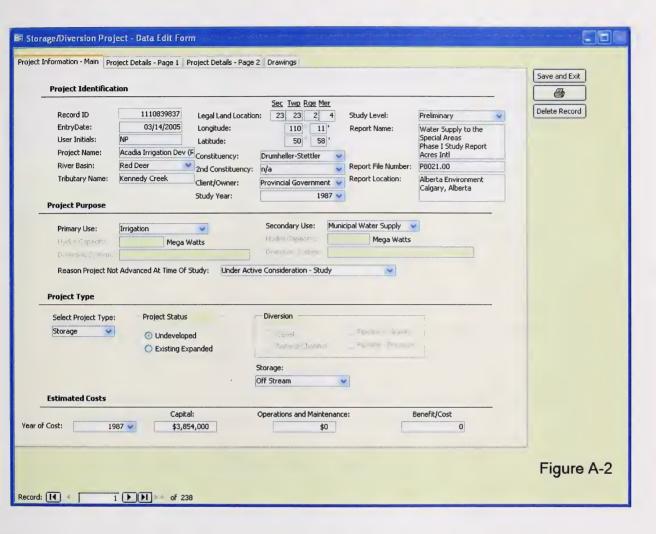
Each project is referred to as a "Record" in *Microsoft Access*. In the bottom left corner of the form, the number of records (projects) is indicated and the adjacent arrows can be clicked to navigate through the records.

The Data View / Edit Form is split into the four sub-forms "Project Information – Main", "Project Details – Page 1", "Project Details – Page 2", and "Drawings" as indicated by the tabs at the top of the form.

Help boxes appear when the cursor arrow is moved over the various data entry fields. "Drop down" lists are provided for many of the data entry fields. Typed data will also "auto complete" from the selections in the "drop down" list. In many fields, the user also has the option to type in custom information. However, this should be avoided for any fields that are included in the "category search" options in the Main Form, because the project would be excluded from search results.

A print icon on the right side of the form facilitates printing all data of the currently viewed record (project). An example printout of one project is included at the end of Appendix A.







A.3.1 Sub-Form: "Project Information – Main" (refer to Figure A-2)

The "Project Identification" section of the form provides general information such as data entry date, user, project name, river basin, site location, owner of report, study year, study level, and report name and location. The land location is typically the damsite or main body of the reservoir for storage projects, and the diversion point for diversion projects. Locations were estimated in cases where the information did not indicate an exact location.

The "Project Purpose" section of the form provides the intended use information and the reason why the project was not advanced at the time of the study.

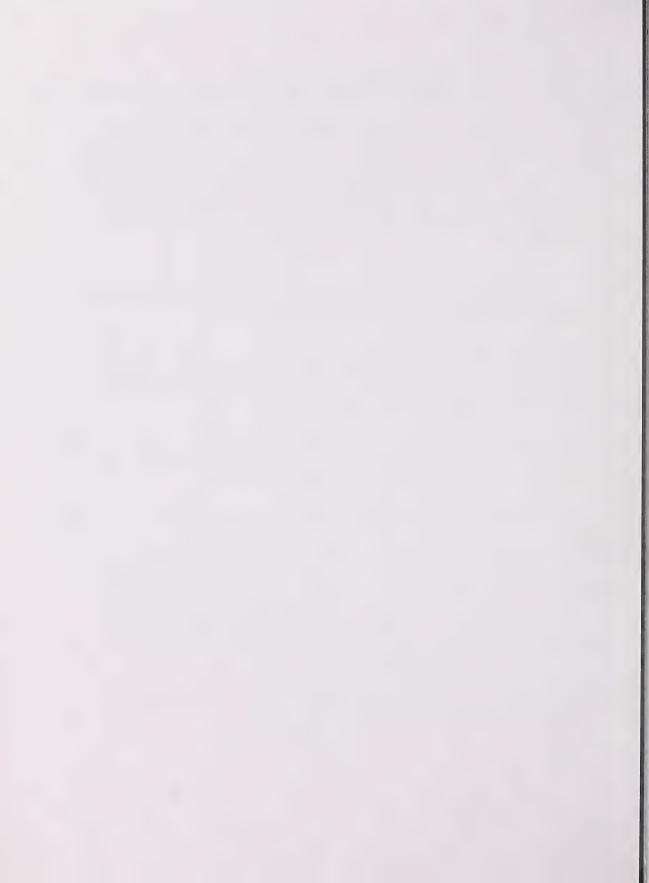
The "Project Type" section of the form indicates project type (storage or diversion), project status (undeveloped site or expansion of an existing site), and general information about the type of diversion or storage project.

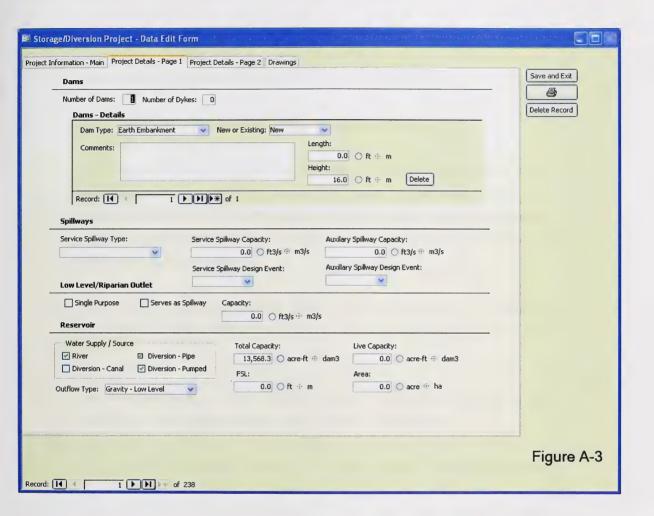
The "Estimated Costs" section of the form contains capital cost, operation and maintenance costs, benefit/cost ratio and year of cost estimate.

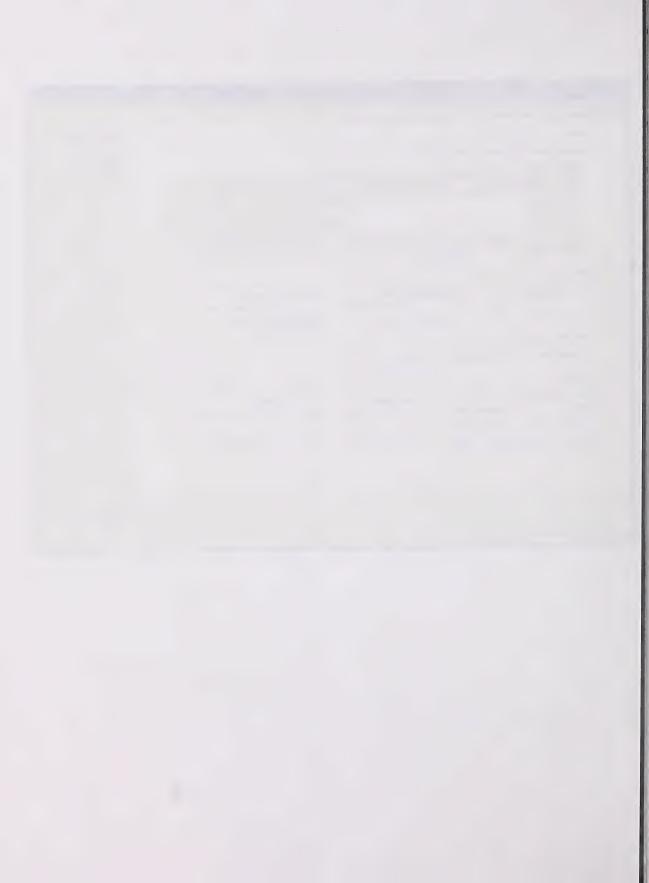
A.3.2 Sub-Form: "Project Details – Page 1" (refer to Figure A-3)

The "Dams" section of the form provides information such as the number of dams and dykes, the dam fill type and whether the proposed dam would be new or an existing raised dam. Length and height of dam as well as general comments are entered if information is available. The database handles multiple dam records to accommodate projects with several dams and/or dykes.

The "Spillways" and "Low Level/Riparian Outlet" sections of the form provide any available information such as spillway type, capacity and design event.







The "Reservoir" section of the form provides reservoir information such as water source, storage volume, surface area, full supply level (FSL) and outflow type.

A.3.3 Sub-Form: "Project Details – Page 2" (refer to Figure A-4)

The "Diversion Systems" section of the form provides diversion details such as number and type of diversions, number of pump stations, capacity, length and description of the diversion start and end. The database handles multiple diversion records to accommodate projects with several diversions from one source. A long complex diversion system may also be easily split into segments.

The "Impact Assessments" section of the form indicates whether environmental, sociological, historical, infrastructure or land ownership reviews were included in the report.

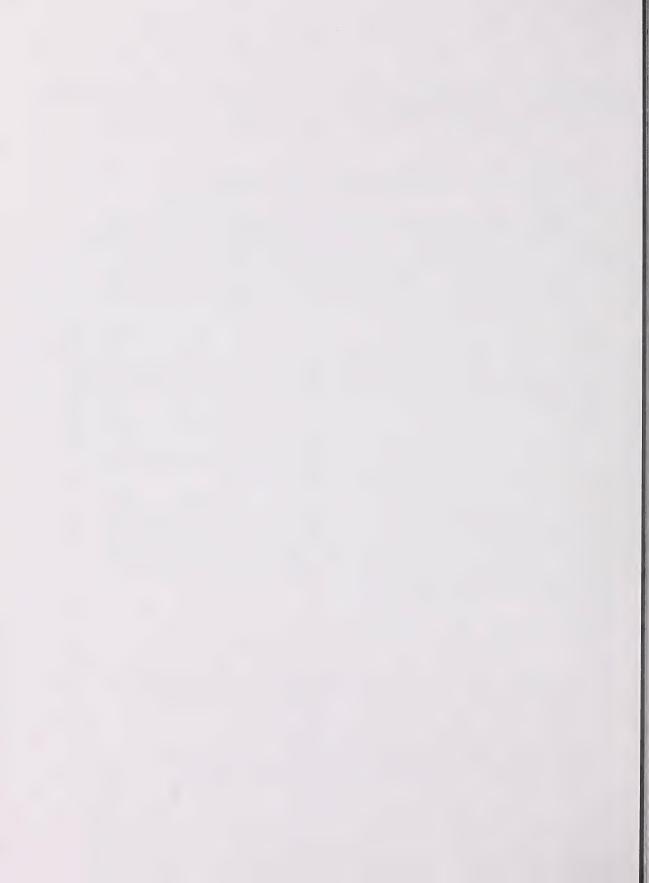
The "Site Investigations" and "Hydrology" sections of the form indicate the level of geotechnical, survey/mapping and hydrology completed in the report.

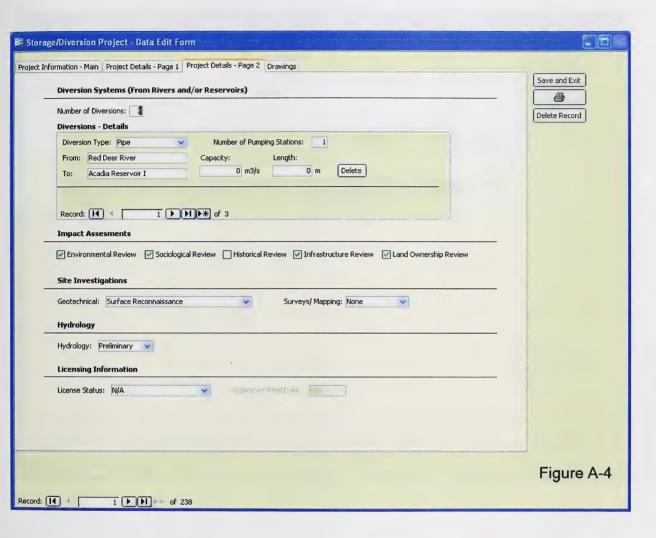
The "Licensing Information" section of the form indicates available information regarding water license status and application date, if applicable. No license information was found for any of the inventoried projects to date. This information can be entered into the database at a future date, if desired.

A.3.4 Sub-Form: "Drawings" (refer to Figure A-5)

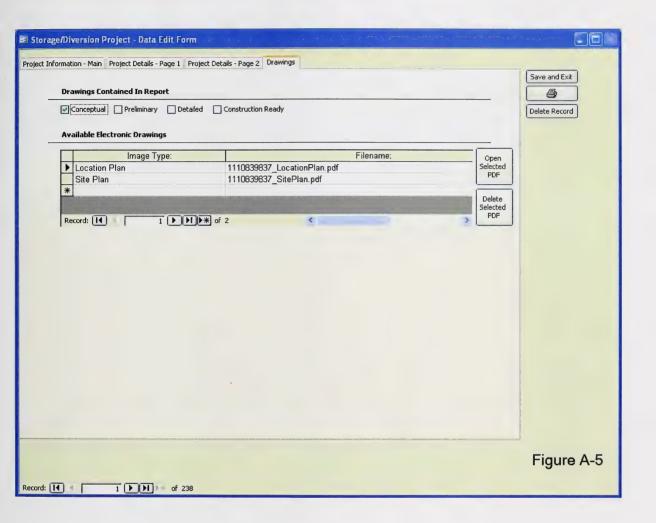
The "Drawings Contained in Report" section of the form indicates the level of the drawings (i.e. conceptual, preliminary, etc.), if any exist.

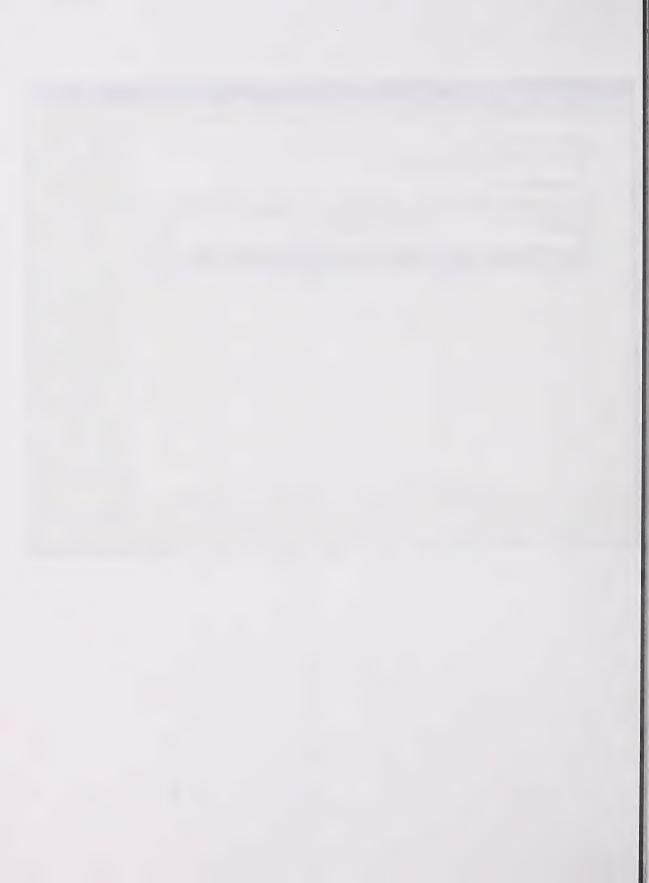
The "Available Electronic Drawings" section of the form lists the drawings that have been scanned and are electronically linked to the database. These drawings can be





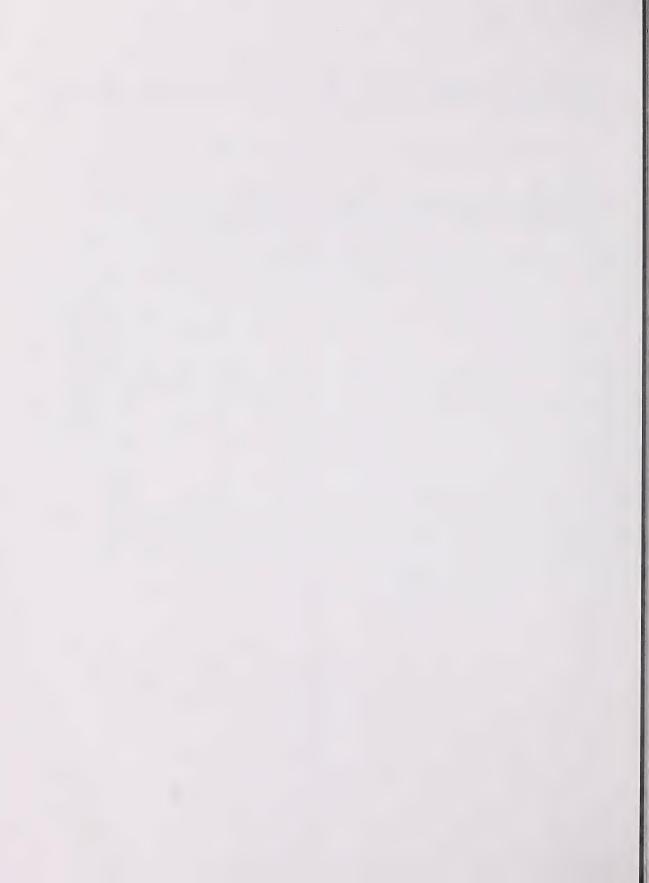




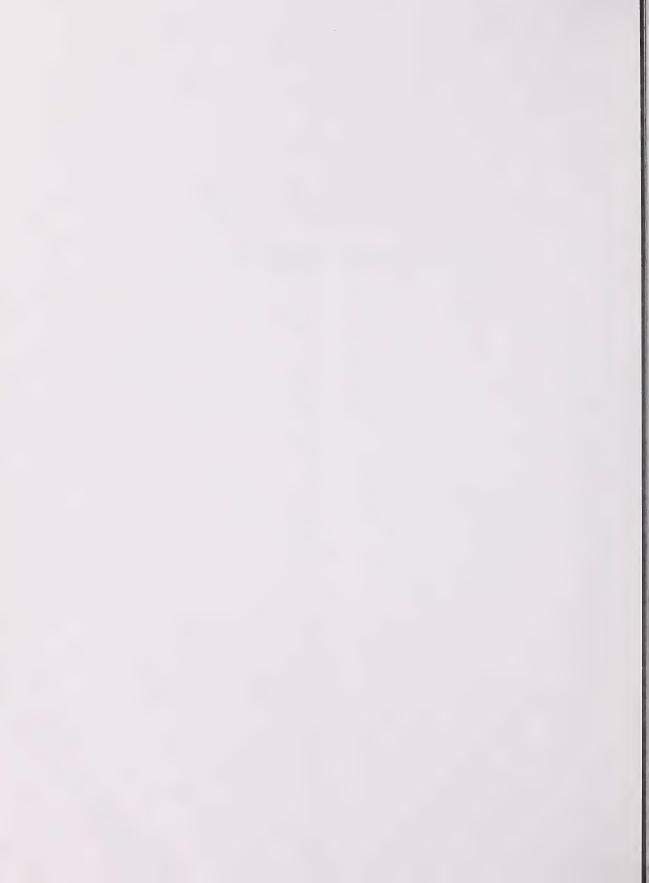


viewed by selecting one, then clicking the "Open Selected PDF" icon. In a few projects, the entire report document has been included.

New electronic drawings can be added in the future by selecting a new "Image Type" from the drop-down list or by typing in a custom-named "Image Type". Upon completing this, the database will automatically assign a file name. The new file must have this exact file name and be stored in the "PDF Drawings" folder.

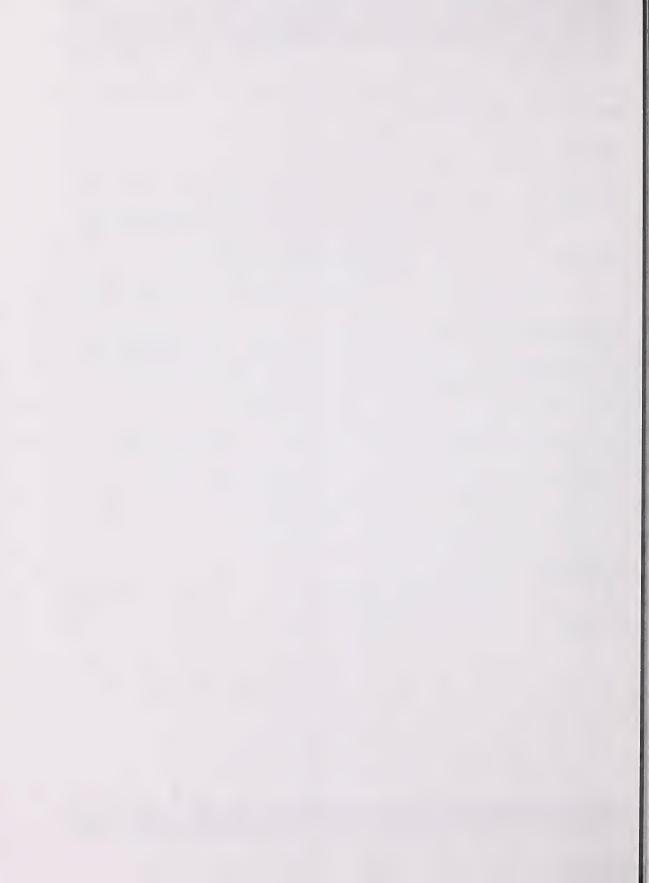






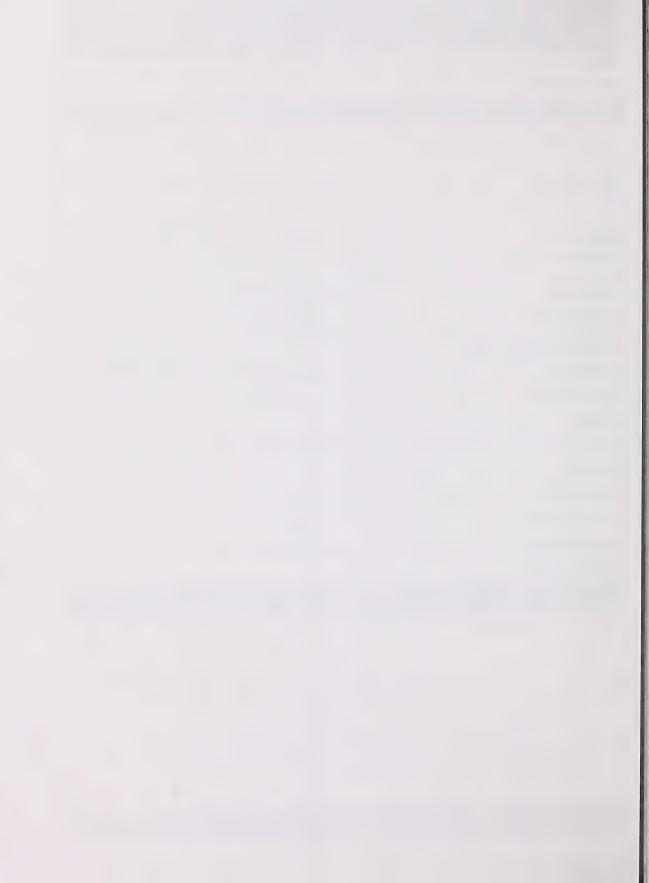
Acadia Irrigation Development 2005 - Scenario 3

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Entry Date	05/24/2005	Legal Land Location	20 - 23 - 3 - 4
Project Name	Acadia Irrigation Development 2005 - Scenario 3	Longitude	110° 23'
Basin Name	Red Deer	Latitude	50° 59'
Tributary Name		Constituency	Drumheller-Stettler
Report Name	MD of Acadia #34	2nd Constituency	n/a
	Irrigation Development Study	Client/Owner	Municipal Government
	MPE, 2005	Study Year	2005
Report Location	MPE Engrg	Study Level	Feasiblility
ng. J. I viente	Calgary	Report File Number	MPE #2280-001-00
Project Purpose			
Primary Use	Irrigation	Secondary Use	Municipal Water Supply
Hydro Capacity (M	IW)	Hydro Capacity (MW)	
Diversion System		Diversion System	CHRONIC TO BE ANY THE
Reason Project No	ot Advanced At Time Of Study	Und	er Active Consideration - Study
Project Type			
Project Type	Storage	Project Status	Undeveloped
Diversion Types		Storage Type	Off Stream
Estimated Costs			
Year	2004	Capital	\$96,100,000
Operations And Maintenance	\$2,860,000	Cost Benefit	. 0.95



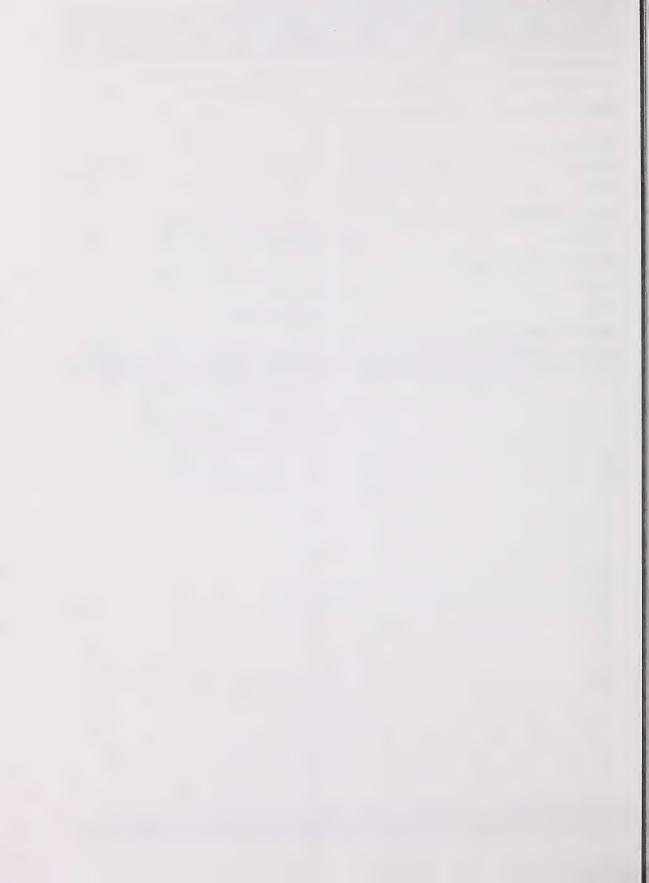
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Dam Type	New or Existing	Height (m)	Length (m)		Comments	
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Reservoir						
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Outflow Type	Gravity	- Diversion				
Total Capacity (dam3)		22500	FSL (m)			728.5
Live Capacity (dam3)		17000	Area (ha)			219
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Pipe		Secondary 'B' Pipeline System	. 0		0	1
Channel		Secondary 'A' Network	C		0	7.5

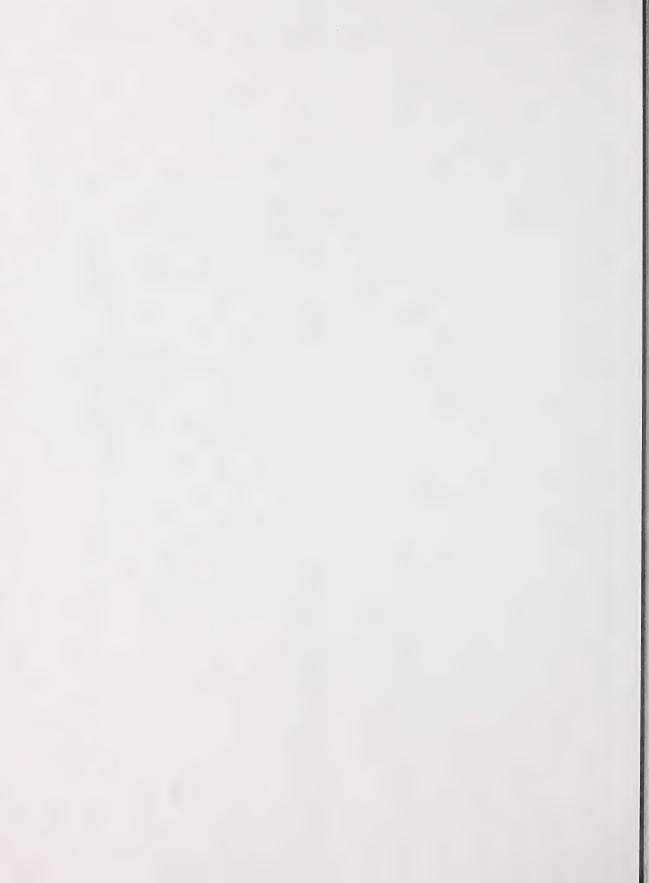


Acadia Irrigation Development 2005 - Scenario 3

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Environmental Review	Sociologica	I Review	Historical Review	$\mathbf{\Sigma}$
Infrastructure Review	Land Owne	rship Review		
Site Investigation				
Geotechnical	Surface Reconna	uissance Survey	s/ Mapping	Contour Maps
Hydrology	Prel	iminary		
Licensing Information				
License Status		N/A Applica	ition Filed Date	N/A
Drawings Contained in	Report	Name and the second		
Conceptual	$ \mathbf{\nabla}$	Prelimi	nary	
Detailed		Constr	uction Ready	
Available Electronic Dr	awings			
Image Ty	pe		Filename	A Second
Cross Section	- Dam	427	6979593_CrossSection-D	Dam.pdf
Cross Section -	Outlets	4276	5979593_CrossSection-Ou	utlets.pdf
Site Plan	2	-	4276979593_SitePlan2.p	pdf
Site Plan	1	\$100 miles \$100	4276979593_SitePlan1.	pdf







APPENDIX B
Summary of Inventoried Projects



Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	
1	Acadia Irrigation Dev (Reservoir I)	Red Deer	Kennedy Creek	23	23	2	
2	Acadia Irrigation Dev (Reservoir III)	Red Deer	Kennedy Creek	12	24	2	
3	Acadia Irrigation Dev (Reservoir IV)	Red Deer	Kennedy Creek	13	24	2	
4	Acadia Irrigation Development 2005 - Scenario 3	Red Deer	(c)	20	23	3	
5	Ardley Dam	Red Deer	A LPHAY AMERICAN METERALA SAMPLINE CO.	29	38	23	
6	Ardley Reservoir Diversion	Red Deer	Tail Creek	29	38	23	
7	Athabasca - 19th Baseline Hydro Site	Athabasca	The second of th	33	72	18	****
8	Athabasca - Crooked Rapids Hydro Site	Athabasca	A SAND AND AND AND AND AND AND AND AND AND	35	87	12	
9	Athabasca - Grand Rapids Hydro Site	Athabasca	A NO. OF THE SEC. SAME PROSESSION AND A SECOND PARTY OF THE SECOND AND A SECOND SEC.	34	84	17	
10	Athabasca - Mile 193 Hydro Site	Athabasca		11	87	17	
11	Athabasca - Mirror Hydro Site	Athabasca		33	66	23	
12	Athabasca - Mountain Rapids Hydro Site	Athabasca	A grant control of the property of the control of the system control of the contr	33	88	10	
13	Athabasca - Oldman Dam	Athabasca	Oldman Creek	20	55	22	
14	Athabasca - Pelican Rapids Hydro Site	Athabasca	The state of the s	20	79	17	-
15	Athabasca Diversion	Athabasca	THE STATE OF THE PART AND AN ARRANGE AND AND ARRANGE AND AR	3	54	20	-
16	Belly River Reservoir	Oldman	Belly River	11	2	28	
17	Black Eagle Project	Milk	Thelma Creek	25	6	3	
18	Blackfoot Irrigation Development Site 2 Reservoir	Bow	West Arrowwood Creek	7	21	23	
19	Bow - Cochrane Hydro Site	Bow	THE STATE OF THE SECOND STATES OF THE SECOND STATES OF THE STATES OF THE SECOND STATES OF THE	34	25	4	
20	Bow - Glenbow Hydro Site	Bow	and the factor of the contract	28	25	3	Th. street
21	Bow - Lac des Arcs Hydro Site	Bow		23	24	9	
22	Bow - Radnor Hydro Site	Bow		15	26	5	S-HENN
23	Bow - Russell Hydro Site	Bow	SANGEROOS CONTRA A MINI CONTRA THEOREM SOUTH SANGER	27	25	7	3-11
24	Bow Office Study - Damsite 1	Bow		5	21	22	
25	Bow Office Study - Damsite 2	Bow	Management of the second	2	21	22	

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
4	50	58	110	11	Provincial Government	1987	Storage	Off Stream	Undeveloped
4	51	2	110	10	Provincial Government	1987	Storage	Off Stream	Undeveloped
4	51	3	110	10	Provincial Government	1987	Storage	Off Stream	Undeveloped
4	50	59	110	23	Municipal Government	2005	Storage	Off Stream	Undeveloped
4	52	18	113	15	Provincial Government	1967	Storage	On Stream	Undeveloped
4	52	18	113	15	Provincial Government	1970	Diversion		Undeveloped
4	55	17	112	43	TransAlta	1955	Storage	On Stream	Undeveloped
4	56	35	111	48	TransAlta	1963	Storage	On Stream	Undeveloped
4	56	20	112	36	TransAlta	1955	Storage	On Stream	Undeveloped
4	56	32	112	36	TransAlta	1955	Storage	On Stream	Undeveloped
4	54	45	113	25	TransAlta	1963	Storage	On Stream	Undeveloped
4	56	41	111	32	TransAlta	1955	Storage	On Stream	Undeveloped
5	53	46	117	14	Provincial Government	1968	Storage	On Stream	Undeveloped
4	55	53	112	38	TransAlta	1955	Storage	On Stream	Undeveloped
5	53	38	116	52	Provincial Government	1969	Diversion	an orangem a security appropriate agency appropriate to a security	Undeveloped
4	49	6	113	39	SMRID	2002	Storage	On Stream	Undeveloped
4	49	30	110	17	Federal Government	1967	Storage	Off Stream	Undeveloped
4	50	45	113	10	Federal Government	1987	Storage	Off Stream	Undeveloped
5	51	11	114	29	TransAlta	1953	Storage	On Stream	Undeveloped
5	51	10	114	22	TransAlta	1960	Storage	On Stream	Undeveloped
5	51	4	115	9	TransAlta	1954	Storage	On Stream	Undeveloped
5	51	13	114	37	TransAlta	1960	Storage	On Stream	Undeveloped
5	51	10	114	54	TransAlta	1960	Storage	On Stream	Undeveloped
4	50	45	113	. 1	Federal Government	1957	Storage	On Stream	Undeveloped
4	50	45	112	57	Federal Government	1957	Storage	On Stream	Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	
26	Bow Office Study - Damsite 3	Bow		5	21	19	
27	Bow River Barstow Site	Bow		18	22	23	
28	Bow to Oldman Diversion - Route 1 Callum Creek	Bow	Elbow	7	20	7	
29	Bow to Oldman Diversion - Route 2 Willow Creek	Bow	Elbow	7	20	7	
30	Bow to Oldman Diversion - Route 3 Mosquito Creek Bow to Oldman Diversion - Route 4A Highwood	Bow	Elbow	29	23	4	
31	Gravity Bow to Oldman Diversion - Route 4B Highwood	Bow	Highwood	29	20	28	
32	Pumped Bow to Oldman Diversion - Route 5A Arrowwood	Bow	Highwood	29	21	27	
33	Gravity Bow to Oldman Diversion - Route 5B Arrowwood	Bow		19	21	26	
34	Pumped Bow to Oldman Diversion - Route 6 Carseland-	Bow		19	21	26	
35	McGregor-Travers Bow to Oldman Diversion - Route 7 Gleichen-	Bow		28	14	21	
36	McGregor-Travers Bow to Oldman Diversion - Route 8 Bassano-	Bow .		5	21	22	
37	McGregor-Travers	Bow		2	21	19	
38	Brazeau - O'Chiese Damsite	North Sask	Brazeau	29	45	9	
39	Brazeau Forks Hydro Site	North Sask	The state of the s	11	46	9	
40	Bruce Lake Reservoir	Red Deer	Serviceberry Creek Blood & Indian	25	25	26	
41	Cabin Lake & Dirty Lake(Blood Indian Project)	Red Deer	Creeks	10	24	9	
42	Cameron Project	North Sask	Sounding Creek	24	30	8	
43	Carvel Dam-High Reservoir	North Sask		34	50	2	
44	Carvel Dam-Low Damsite	North Sask		34	50	2	
45	Carvel to Battle River(2000cfs Diversion)	North Sask		34	50	2	
46	Carvel to Battle River(4000cfs Diversion)	North Sask		34	50	2	
47	Carvel to Battle River(6000cfs Diversion)	North Sask		34	50	2	
48	Castle River (Canyon Site)	Oldman	Castle River	24	6	2	
49	Chin Reservoir Expansion	South Sask		26	7	16	her was
50	Chip Lake Diversion to Pembina River	Athabasca	same i romo un	33	53	9	

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study	Project Type	Storage Type	Status
4	50	45	112	36	Federal Government	1957	Storage	On Stream	Undeveloped
4	50	50	113	10	Federal Government	1985	Storage	On Stream	Undeveloped
5	50	41	114	58	Federal Government	1970	Diversion		Undeveloped
5	50	41	114	58	Federal Government	1970	Diversion		Undeveloped
5	50	59	114	32	Federal Government	1970	Diversion		Undeveloped
4	50	43	113	51	Federal Government	1970	Diversion	and the the the services and a service	Undeveloped
4	50	49	113	43	Federal Government	1970	Diversion		Undeveloped
4	50	48	113	36	Federal Government	1970	Diversion	on the section of the	Undeveloped
4	50	48	113	36	Federal Government	1970	Diversion	er vinaster dis amboundass A. Handa er det ambouda i per v	Undeveloped
4	50	12	112	49	Federal Government	1970	Diversion	and the second to see which is an a second	Existing Expanded
4	50	45	113	1	Federal Government	1970	Diversion		Existing Expanded
4	50	45	112	32	Federal Government	1970	Diversion	per in Africanius servaine Afrikais - V Afrikaisa se	Existing Expanded
5	52	55	115	16	TransAlta	1965	Storage	On Stream	Undeveloped
5	52	57	115	12	TransAlta	1965	Storage	On Stream	Undeveloped
4	51	10	113	30	WID	1984	Storage	Off Stream	Undeveloped
4	51	2	111	11	Federal Government	1956	Storage	On Stream	The published an expensive filter can be a finished by the filter of the contract of the filter of t
4	51	35	111	0	Federal Government	1958	Storage	On Stream	Undeveloped
5	53	21	114	13	Provincial Government	1970	Storage	On Stream	Undeveloped
5	53	21	114	13	Provincial Government	1970	Storage	On Stream	Undeveloped
5	53	21	114	13	Provincial Government	1971	Diversion	Amountain for motion to a make the man a state of the state of	Undeveloped
5	53	21	114	13	Provincial Government	1971	Diversion	* * * * * * * * * * * * * * * * * * * *	Undeveloped
5	53	21	114	13	Provincial Government	1971	Diversion	W. T. SANTE (SEE J. SEE J. ST. ST. ST. ST. ST. ST. ST. ST. ST. ST	Undeveloped
5	49	29	114	9	Federal Government	1938	Storage	On Stream	Undeveloped
4	49	35	112	4	SMRID	2002	Storage	Off Stream	Existing Expanded
5	53	37	115	16	Provincial Government	1970	Diversion		Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	
51	Clearwater Diversion to Horseguard	North Sask	Clearwater	23	37	6	
52	Crowfoot Creek Dam	Bow	Crowfoot Creek	16	23	20	
53	Crowfoot Creek Dam B	Bow	Crowfoot Creek	24	23	22	
54	Dalemead Diversion	Bow		20	21	26	
55	Dalemead Reservoir (Intermediate)	Bow		20	21	26	
56	Dalemead Reservoir (Low)	Bow		20	21	26	
57	Dalemead Reservoir, Bow River Diversion	Bow	3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20	21	26	
58	Deadhorse Coulee	Oldman	Little Bow	24	13	18	
59	Delacour Reservoir	Red Deer		18	25	27	
60	Drayton Damsite	North Sask	Office of the state of the stat	11	49	7	
61	Dunvegan Dam	Peace/Slave	Peace	13	80	5	1
62	Dunvegan HydroElectric Project 1983	Peace/Slave		12	80	5	
63	Dunvegan Hydroelectric Project 2000	Peace/Slave	interpretation of the state of	7	80	4	[
64	Dunvegan to Lesser Slave Lake Diversion(10,000cfs)	Peace/Slave	Peace River	4	80	5	
65	Dunvegan to Lesser Slave Lake Diversion(15,000cfs)	Peace/Slave	Peace River	4	80	5	
66	Eagle Lake Pump Storage	Bow	one description of the second	30	23	24	
67	Eagle Lake Reservoir (Alternative #1)	Bow		21	23	24	
68	Eagle Lake Reservoir (Alternative #2)	Bow		21	23	24	
69	Eagle Lake Reservoir (Alternative #3)	Bow ANY A A STATE OF THE STATE		21	23	24	
70	Eagle Pond	Bow		10	24	24	
71	East Chin Coulee	South Sask		26	7	16	
72	Eyremore Dam (High)	Bow		14	18	18	
73	Eyremore Dam (Intermediate)	Bow	A CASINIA CARRIAGO CONTRACA CARRIAGO CONTRACA CARRIAGO CA	14	18	18	
74	Eyremore Dam (Low)	Bow	And the second s	14	18	18	
75	Ferintosh Dam	North Sask	Meeting Creek(Battle River)	34	43	21	

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
5	52	12	114	45	Provincial Government	1968	Diversion		Undeveloped
4	50	57	112	44	Provincial Government	1970	Storage	On Stream	Undeveloped
4	50	58	112	57	Federal Government	1995	Storage	On Stream	Undeveloped
4	50	48	113	34	Provincial Government	1971	Diversion	TO CAME IN SIZE OF THE OFFICE AND THE ACT OF	Undeveloped
4	50	48	113	34	Provincial Government	1977	Storage	On Stream	Undeveloped
4	50	48	113	34	Provincial Government	1977	Storage	On Stream	Undeveloped
4	50	48	113	34	Provincial Government	1971	Storage	On Stream	Undeveloped
4	50	6	112	20	BRID	0	Storage	Off Stream	Undeveloped
4	51	8	113	46	WID	1982	Storage	Off Stream	Undeveloped
5	53	13	114	55	Provincial Government	1970	Storage	On Stream	Undeveloped
6	55	56	118	39	Provincial Government	1971	Diversion		Undeveloped
6	55	56	118	38	AB Power & TransAlta	1983	Storage	On Stream	Undeveloped
6	55	55	118	38	Private	2000	Storage	On Stream	Undeveloped
6	55	54	118	43	Provincial Government	1971	Diversion		Undeveloped
6	55	54	118	43	Provincial Government	1971	Diversion		Undeveloped
4	50	59	113	21	WID	1985	Diversion		Existing Expanded
4	50	58	113	18	Provincial Government	1970	Storage	Off Stream	Undeveloped
4	50	58	113	18	Provincial Government	1970	Storage	Off Stream	Undeveloped
4	50	58	113	18	Provincial Government	1970	Storage	Off Stream	Undeveloped
4	51	1	113	15	WID	1984	Storage	Off Stream	Undeveloped
4	49	35	112	4	SMRID	2002	Storage	Off Stream	Undeveloped
4	50	31	112	23	Provincial Government	1977	Storage	On Stream	Undeveloped
4	50	31	112	23	Provincial Government	1977	Storage	On Stream	Undeveloped
4	50	31	112	23	Provincial Government	1977	Storage	On Stream	Undeveloped
4	52	45	112	58	Provincial Government	1971	Diversion		Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	
76	Ford Damsite Elbow River Project	Bow	Elbow	24	21	7	
77	Glenn Lakes Reservoir	Oldman	1	1	1	28	
78	Goodwin Dam(High Dam 5/10,000cfs diversion)	Peace/Slave	Smoky River	6	73	2	
79	Goodwin Dam(Low Dam 10,000cfs Diversion)	Peace/Slave	Smoky River	6	73	2	
80	Goodwin Dam(Low Dam 5000cfs diversion)	Peace/Slave	Smoky River	6	73	2	
81	Goodwin Reservoir(High) to Lesser Slave Lake (10,000 cfs Gravity Diversion)	Peace/Slave	Smoky River	5	73	2	
82	Goodwin Reservoir(High) to Lesser Slave Lake (5000cfs Gravity Diversion)	Peace/Slave	Smoky River	5	73	2	
83	Goodwin Reservoir(Low) to Lesser Slave Lake(10,000cfs Pumped Diversion)	Peace/Slave	Smoky River	5	73	2	
84	Goodwin Reservoir(Low) to Lesser Slave Lake(5000cfs Pumped Diversion)	Peace/Slave	Smoky River	5	73	2	
85	Hairy Hill Dam	North Sask		12	57	14	
86	Hammerhill Reservoir	Bow		1	23	23	
87	Hartell Coulee Reservoir	Red Deer	Serviceberry Creek	24	24	26	
88	Hornberger Lake	Red Deer	or control of control of the control	27	20	16	
89	Horseguard Canal to Red Deer River	North Sask		29	38	5	
90	Horseguard Dyke	Red Deer	Lasthill Ck & Medicine River	24	37	5	40.7
91	Horseguard North Dam	Red Deer	Lasthill Ck & Medicine River	34	38	5	
92	Horseguard Reservoir Canal	North Sask	Stauffer Creek	11	37	5	
93	Horseguard South Dam	Red Deer	Lasthill Ck & Medicine River	11	37	5	78.
94	Irricana Recreation Reservoir	Red Deer	Crossfield Creek	20	27	26	
95	Isle Lake Diversion to N Sask	North Sask		11	54	5	- Marrier I
96	Jensen Reservoir Extension	Oldman	Pothole Creek	29	4	22	- 164.01
97	Kakwa Site Diversion Dam-Smoky River	Peace/Slave	Smoky River	14	65	4	
98	Kelsey Dam	North Sask	Battle River	32	43	18	•
99	Kelsey Reservoir to Red Deer River(2000cfs Diversion)	North Sask	Battle River	19	44	19	
100	Kelsey Reservoir to Red Deer River(4000cfs Diversion)	North Sask	Battle River	19	44	19	

Vidn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
5	50	48	114	51	Provincial Government	1969	Storage	On Stream	Undeveloped
4	49	0	113	37	SMRID	2002	Storage		Undeveloped
6	55	18	118	18	Provincial Government	1971	Diversion	**************************************	Undeveloped
6	55	18	118	18	Provincial Government	1971	Diversion	77 - A = 100 - 2	Undeveloped
6	55	18	118	18	Provincial Government	1971	Diversion	And a constitution of the second state of the second	Undeveloped
6	55	18	118	16	Provincial Government	1971	Diversion	and the state of t	Undeveloped
6	55	18	118	16	Provincial Government	1971	Diversion	S CONTRACTOR OF THE SECOND CONTRACTOR OF THE S	Undeveloped
6	55	18	118	16	Provincial Government	1971	Diversion	general construction to about a construction of construction and construct	Undeveloped
6	55	18	118	16	Provincial Government	1971	Diversion	governor transfer and to a few former than the first	Undeveloped
4	53	54	111	57	Provincial Government	1970	Storage	On Stream	Undeveloped
4	50	56	113	5	WID	1996	Storage	Off Stream	Undeveloped
4	51	3	113	30	WID	1996	Storage	Off Stream	Undeveloped
4	50	43	112	9	EID	0	Storage	Off Stream	Undeveloped
5	52	18	114	41	Provincial Government	1969	Diversion	and account the streethernic at a streethern constitution	Undeveloped
5	52	12	114	35	Provincial Government	1968	Storage	On Stream	Undeveloped
5	52	19	114	38	Provincial Government	1968	Storage	On Stream	Undeveloped
5	52	10	114	37	Provincial Government	1969	Diversion		Undeveloped
5	52	10	114	37	Provincial Government	1968	Storage	On Stream	Undeveloped
4	51	19	113	38	Provincial Government	1974	Storage	On Stream	Undeveloped
5	53	39	114	38	Provincial Government	1969	Diversion		Undeveloped
4	49	19	112	56	SMRID	2002	Storage	On Stream	Existing Expanded
6	54	37	118	30	Provincial Government	1966	Diversion		Undeveloped
4	52	45	112	35	Provincial Government	1971	Storage	On Stream	Undeveloped
4	52	48	112	45	Provincial Government	1971	Diversion		Undeveloped
4	52	48	112	45	Provincial Government	1971	Diversion		Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	
101	Kelsey Reservoir to Red Deer River(500cfs Diversion)	North Sask	Battle River	19	44	19	
102	Kenex-Rocky Coulee Reservoir	Oldman		25	11	24	
103	Langdon Reservoir Expansion	Bow		25	22	27	
104	Lee Creek - Site 5A	Oldman	Lee Creek	27	1	27	
105	Lee Creek - Site 6	Oldman	Lee Creek	26	1	27	
106	Lee Creek Reservoir	Oldman	Lee Creek	26	2	26	
107	Lee Creek -Site 3 Lesser Slave Lake-Storage/Conveyance(10,000cfs	Oldman	Lee Creek	30	2	25	
108	Diversion) Lesser Slave Lake-Storage/Conveyance(15,000cfs	Athabasca	Lesser Slave River	7	73	5	
109	Diversion) Lesser Slave Lake-Storage/Conveyance(20,000cfs	Athabasca	Lesser Slave River	7	73	5	
110	Diversion) Lesser Slave Lake-Storage/Conveyance(25,000cfs	Athabasca	Lesser Slave River	7	73	5	
111	Diversion) Lesser Slave Lake-Storage/Conveyance(5000cfs	Athabasca	Lesser Slave River	7	73	5	
112	Diversion)	Athabasca	Lesser Slave River	7	73	5	1
113	Little Beaver Lake & Cordwood Projects	Beaver	Amisk River	2	65	16	
114	Little Bow River Project Dam and Reservoir	Oldman	Little Bow River	5	15	25	
115	Little Bow Site 2	Oldman	Little Bow River	7	17	26	;
116	Little Bow Site 3	Oldman	Little Bow River	20	16	26	
117	Little Bow Site 7A (50,000Ac Ft)	Oldman	Little Bow River	27	14	25	-
118	Little Bow Site 7A(70,000Ac Ft)	Oldman	Little Bow River	27	14	25	
119	Little Bow Site 7B	Oldman	Little Bow River	31	14	25	100
120	Little Bow Site LB1	Oldman	Little Bow River	32	17	27	
121	Little Fish Lake Regulation	Red Deer		4	28	16	
122	Lonely Valley Site	Milk	Lonely Valley Creek	27	2	20	
123	Lumpy Butte Reservoir	Oldman	St. Mary River	10	3	24	
124	Magnolia Dam	North Sask	River	13	53	7	- A
125	Mary Lakes Reservoir	Oldman	St. Mary River	7	1	24	

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
4	52	48	112	45	Provincial Government	1971	Diversion	,	Undeveloped
4	49	56	113	9	Provincial Government	1977	Storage	Off Stream	Undeveloped
4	50	54	113	37	WID	1994	Storage	Off Stream	Existing Expanded
4	49	4	113	32	SMRID	2002	Storage	On Stream	Undeveloped
4	49	4	113	31	SMRID	2002	Storage	Off Stream	Undeveloped
4	49	9	113	23	Provincial Government	1971	Storage	On Stream	Undeveloped
4	49	9	113	20	SMRID	2002	Storage	On Stream	Undeveloped
5	55	18	114	46	Provincial Government	1971	Diversion	Come, consistent of last, which is the other transfer shadow outside the	Undeveloped
5	55	18	114	46	Provincial Government	1971	Diversion	e de la companie de l	Undeveloped
5	55	18	114	46	Provincial Government	1971	Diversion	a sanka na maraja na maraja na kamban ka sananan na	Undeveloped
5	55	18	114	46	Provincial Government	1971	Diversion	The country will be supply the talk that a state of the talk of ta	Undeveloped
5	55	18	114	46	Provincial Government	1971	Diversion	An allegation of the state of t	Undeveloped
4	54	36	112	19	Ducks Unlimited	1990	Storage	On Stream	Existing Expanded
4	50	14	113	24	Provincial Government	1997	Storage	On Stream	
4	50	25	113	34	Provincial Government	1985	Storage	On Stream	Undeveloped
4	50	22	113	32	Provincial Government	1985	Storage	On Stream	Undeveloped
4	50	12	113	20	Provincial Government	1986	Storage	On Stream	Undeveloped
4	50	12	113	20	Provincial Government	1986	Storage	On Stream	Undeveloped
4	50	13	113	24	Provincial Government	1985	Storage	On Stream	Undeveloped
4	50	29	113	41	Provincial Government	1986	Storage	On Stream	Undeveloped
4	51	20	112	20	Provincial Government	1987	Diversion		Existing Expanded
4	49	9	112	36	Provincial Government	1978	Storage	On Stream	Undeveloped
4	49	12	113	9	SMRID	2002	Storage	Off Stream	Undeveloped
5	53	35	114	54	Provincial Government	1970	Storage	On Stream	Undeveloped
4	49	1	113	12	SMRID	2002	Storage	Off Stream	Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	1
126	McLeod Reservoir Canal to Chip Lake	Athabasca	,	29	54	14	
127	McLeod River Damsite	Athabasca	Mcleod River	33	57	13	
128	McLeod Valley Dam	Athabasca	McLeod River	3	55	14	y down Shifts of
129	Meridian Dam	South Sask	AND THE PROPERTY OF THE PARTY O	13	22	1	
130	Meridian Dam (Scenario 2)	South Sask		13	22	1	4.
131	Middle Coulee	Milk		33	4	19	
132	Milk River Forks Reservoir	Milk		27	2	18	
133	Milk River Site 1	Milk	and A fee will have been a second or an experience of the second of the	10	2	14	ļ
134	Mitchell Damsite	Bow	Elbow	4	22	6	
135	Moose Portage Dam	Athabasca	as Assessment for the second polyment we believe that with	17	72	25	
136	Moose Portage Reservoir to North Sask. River (35,000cfs diversion)	Athabasca		25	68	2	
137	Moose Portage Reservoir to North Sask. River (5000cfs diversion)	Athabasca		25	68	2	
138	Moose Portage Reservoir to North Saskatchwan River(15,000 cfs diversion)	Athabasca		25	68	2	-
139	Mosquito Creek Site 3	Oldman	Mosquito Creek	2	17	28	
140	Mosquito Creek Site MC4	Oldman	Mosquito Creek	36	16	29	
141	Mud Lake	Oldman	A CANDON AND AND AND AND AND AND AND AND AND AN	24	9	27	
142	North Milk Fork Site 1	Milk	North Milk	33	1	22	
143	North Milk Fork Site 2	Milk	North Milk	22	2	20	
144	North Milk Fork Site 3	Milk	North Milk	20	2	20	-
145	Oldman River Gap Damsite	Oldman		32	10	3	
146	Oldman River Site 1-1A	Oldman		18	8	21	
147	Oldman River Site 1-2A	Oldman	an gar a la la la ver Manni dan danki samanin rankina da la kanana ranki samanin ranki da kanana kanan da kana	20	10	24	
148	Oldman River Site 1-3A	Oldman	THE COLUMN CONTROL OF THE CONTROL OF THE COLUMN COLU	35	7	28	- Constant
149	Oldman River Site 1-4	Oldman		21	8	1	
150	Oldman River Site 2-1A	Oldman	St. Mary River	12	7	22	-

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
5	53	42	116	2	Provincial Government	1950	Diversion		Undeveloped
5	53	58	115	53	Provincial Government	1967	Storage	On Stream	Undeveloped
5	53	43	116	0	Provincial Government	1968	Diversion		Undeveloped
4	50	52	110	1	Federal Government	1970	Storage	On Stream	Undeveloped
4	50	52	110	1	Provincial Government	2002	Storage	On Stream	Undeveloped
4	49	20	112	30	SMRID	2002	Storage	Off Stream	Undeveloped
4	49	9	112	20	Provincial Government	1986	Storage	On Stream	Undeveloped
4	49	6	111	48	Provincial Government	1978	Storage	On Stream	Undeveloped
5	50	50	114	47	Provincial Government	1969	Storage	On Stream	Undeveloped
4	55	14	113	49	Provincial Government	1971	Storage	On Stream	Undeveloped
5	54	55	114	10	Provincial Government	1971	Diversion	MANAGER COMMONSER ST. F. SAMON ST. AMOUNT AND ST. E. AMOUNT AND ST.	Undeveloped
5	54	55	114	10	Provincial Government	1971	Diversion	and a stranger trans. In a strange, a fine strange and place a figure of	Undeveloped
5	54	55	114	10	Provincial Government	1971	Diversion		Undeveloped
4	50	24	113	45	Provincial Government	1985	Storage	On Stream	Undeveloped
4	50	23	113	52	Provincial Government	1985	Storage	On Stream	Undeveloped
4	49	45	113	32	Provincial Government	1977	Storage	Off Stream	Existing Expanded
4	49	5	112	53	Provincial Government	1978	Storage	On Stream	Undeveloped
4	49	8	112	36	Provincial Government	1980	Storage	On Stream	Undeveloped
4	49	8	112	39	Provincial Government	1978	Storage	On Stream	Undeveloped
5	49	52	114	23	Provincial Government	1966	Storage	On Stream	Undeveloped
4	49	39	112	50	Provincial Government	1975	Storage	On Stream	Undeveloped
4	49	50	113	13	Provincial Government	1975	Storage	On Stream	Undeveloped
4	49	36	113	42	Provincial Government	1975	Storage	On Stream	Undeveloped
5	49	40	114	5	Provincial Government	1975	Storage	On Stream	Undeveloped
4	49	33	112	52	Provincial Government	1975	Storage	On Stream	Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	M
151	Oldman River Site 3-1	Oldman	Belly River	18	9	23	
152	Oldman River Site 5-1A	Oldman	Castle River	27	6	1	
153	Parkland Reservoir	Oldman	Little Bow River	5	15	25	
154	Peanut Lake	Bow		31	22	24	
155	Pembina Diversion to N Sask via Mishow Creek	Athabasca	Mishow Creek	6	52	7	
156	Pembina Flood Control Project (Site #4)	Athabasca	Pembina River	17	53	7	
157	Pembina Reservoir Diversion	Athabasca	TO SEE AN ALL BOTHER BOTHER SHARE SHARE SECTION SECTIO	26	52	7	
158	Pembina River Dam	Athabasca	Pembina River	17	53	7	
159	Rapid Narrows Damsite	South Sask		12	17	4	
160	Raven Dam	Red Deer	Age realized global tips of the time country in the second of the country of the	22	35	3	:
161	Raven Reservoir to Torrington Reservoir(2000cfs Diversion)	Red Deer	Red Deer River	15	35	3	
162	Raven Reservoir to Torrington Reservoir (4000cfs Diversion)	Red Deer	Red Deer River	15	35	3	
163	Red Deer - Crowfoot Pumped Diversion	Red Deer		8	27	17	
164	Ribstone Project	North Sask	Ribstone Creek		38	8	4
165	Rocky Mountain House Canal	North Sask	Lasthill Creek	20	40	7	
166	Rocky Mountain House Dam Site E	North Sask	deregi servisi No. Nakhawa dadawakka	17	39	7	
167	Rocky Mountain House Site A	North Sask		17	40	7	
168	Rocky Rapids Reservoir	North Sask	and the same of control of the same of the	33	47	7	
169	Rolph Creek Reservoir	Oldman	Rolph Creek	29	2	23	4
170	Sand River Dam - Site B	Beaver	Sand River	21	66	8	4
171	Sand River Dam - Sites C & D	Beaver	Sand River	21	63	8	- 11770000
172	Saunders Dam	North Sask	Blackmud Creek	7	50	24	4
173	SAWSP (Special Areas) - Lehman Reservoir Alt. B	North Sask	Sounding Creek	20	34	12	4
174	SAWSP (Special Areas) - Lehman Reservoir Upgrade	North Sask	Sounding Creek	30	34	12	4
175	SAWSP (Special Areas) - Oyen Tributary Reservoir	North Sask	Sounding Creek	7	30	4	4

Mdn	Lát (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
4	49	44	113	6	Provincial Government	1975	Storage	On Stream	Undeveloped
5	49	30	114	3	Provincial Government	1975	Storage	On Stream	Undeveloped
4	50	14	113	24	Provincial Government	1971	Storage	On Stream	Undeveloped
4	50	54	113	18	WID	1985	Storage	Off Stream	Undeveloped
5	53	28	115	1	Provincial Government	1968	Diversion	TALL IN A GAMMA MATERIAL FOR	Undeveloped
5	53	35	115	0	Provincial Government	1965	Storage	On Stream	Undeveloped
5	53	31	114	55	Provincial Government	1969	Diversion	world file and the second control of the second	Undeveloped
5	53	35	115	0	Provincial Government	1969	Diversion	and the second section of the s	Undeveloped
4	50	25	110	26	Provincial Government	1969	Storage	On Stream	Undeveloped
5	52	1	114	21	Provincial Government	1968	Diversion	Superior St. F. St. Superior St. Facility 1-17	Undeveloped
5	52	0	114	21	Provincial Government	1970	Diversion	The Action is a second of the	Undeveloped
5	52	0	114	21	Provincial Government	1970	Diversion	generalistation in Amburo - 1879 A. Medical A. S. Am. 1874 (M. 1874).	Undeveloped
4	51	17	112	22	Provincial Government	1970	Diversion	nd as to 10 hours are sometiment to be 100 account.	Undeveloped
4	52	16	111	5	Federal Government	1940	Storage	On Stream	Undeveloped
5	52	28	114	59	Provincial Government	1969	Diversion	and the state of t	Undeveloped
5	52	21	114	59	Provincial Government	1968	Diversion		Undeveloped
5	52	26	114	59	Provincial Government	1968	Diversion		Undeveloped
5	53	6	114	58	Provincial Government	1970	Storage	On Stream	Undeveloped
4	49	9	113	3	SMRID	2002	Storage	On Stream	Undeveloped
4	54	44	111	9	Provincial Government	1984	Storage	On Stream	Undeveloped
4	54	28	111	9	Provincial Government	1984	Storage	On Stream	Undeveloped
4	53	18	113	30	Provincial Government	1971	Diversion	National Control of the Control of t	Undeveloped
4	51	56	111	40	Municipal Government	2004	Diversion		Undeveloped
4	51	57	111	42	Municipal Government	2004	Diversion		Existing Expanded
4	51	33	110	33	Municipal Government	2004	Diversion		Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	N
176	SAWSP (Special Areas) - Storch Reservoir	Red Deer	Berry Creek	2	34	13	
177	Shanks Lake Reservoir Project	Milk	Shanks Creek	35	1	21	
178	Shepard Hydro Site	Bow	2	7	23	28	
179	Slave River Hydro - Alt. 4 Site	Peace/Slave		34	126	11	
180	Slave River Hydro - Mountain Rapids Site	Peace/Slave	VV 34, 117 - 251 A 18 C 17 1 1 C 1 C 1	25	126	11	
181	Smoky River - 19th Baseline Hydro Site	Peace/Slave	Smoky	32	72	2	
182	Smoky River - Meander Hydro Site	Peace/Slave	Smoky	20	72	2	
183	Smoky River Hydro - 18th Baseline Site	Peace/Slave	Smoky	4	69	4	
184	Smoky River Hydro - Cutbank Site	Peace/Slave	Smoky	22	66	4	
185	Smoky River Hydro - Kakwa Site	Peace/Slave	Smoky	14	65	4	
186	Smoky River Hydro - Peace River Site	Peace/Slave	Smoky	28	82	22	
187	Smoky River Hydro - Wapiti Site	Peace/Slave	Smoky	17	71	2	
188	Smoky River Hydro - Watino Site	Peace/Slave	Smoky	11	77	24	
189	Smoky River Hydro - West Watino Site	Peace/Slave	Smoky	1	76	26	
190	Sounding Creek - North Dam	North Sask	Sounding Creek	22	30	5	2748600
191	Sounding Creek - South Dam	North Sask	Sounding Creek	9	30	4	
192	South Milk Fork Site 1	Milk	e de la companya de l	31	1	18	
193	South Milk Fork Site 2	Milk		17	2	18	
194	Special Areas Water Supply-Canal & On-line Storage Alt #2a	Red Deer		12	38	28	
195	Special Areas Water Supply-Canal & On-line Storage Alt #2b	Red Deer		12	38	28	- mirror
196	Special Areas Water Supply-Canal & On-line Storage Alt #3	Red Deer		12	38	28	
197	Special Areas Water Supply-Canal & On-line Storage Alt. #1	Red Deer		12	38	28	i .
198	Special Areas Water Supply-Pumphouse & Pipeline	Red Deer		10	38	22	1
199	Spray Reservoir Expansion	Bow	Spray	29	23	10	
200	St. Mary - Kimball Reservoir	Oldman	St. Mary River	22	1	25	

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
4	51	53	111	44	Municipal Government	2004	Diversion	t she in summer than short in	Existing Expanded
4	49	5	112	43	Federal Government	1940	Storage	On Stream	Existing Expanded
4	50	57	113	54	TransAlta	1955	Diversion		Existing Expanded
4	59	59	111	49	Provincial Government	1982	Storage	On Stream	Undeveloped
4	59	59	111	46	Provincial Government	1982	Storage	On Stream	Undeveloped
6	55	17	118	16	Canadian Utilities Ltd	1964	Storage	On Stream	Undeveloped
6	55	15	118	16	Private	1980	Storage	On Stream	Undeveloped
6	54	57	118	33	?	1960	Storage	On Stream	Undeveloped
6	54	44	118	31		1960	Storage	On Stream	Undeveloped
6	54	38	118	29	?	1960	Storage	On Stream	Undeveloped
5	56	8	117	22	?	1960	Storage	On Stream	Undeveloped
6	55	9	118	16	?	1960	Storage	On Stream	Undeveloped
5	55	39	117	37	?	1960	Storage	On Stream	Undeveloped
5	55	33	117	54	?	1960	Storage	On Stream	Undeveloped
4	51	35	110	38	Provincial Government	1958	Storage	On Stream	Undeveloped
4	51	33	110	31	Provincial Government	1958	Storage	On Stream	Undeveloped
4	49	5	112	24	Provincial Government	1978	Storage	On Stream	Undeveloped
4	49	7	112	23	Provincial Government	1978	Storage	On Stream	Undeveloped
4	52	15	113	53	Provincial Government	2000	Diversion		Undeveloped
4	52	15	113	53	Provincial Government	1992	Diversion	and it is the first that the part of the same of the s	Undeveloped
4	52	15	113	53	Provincial Government	1992	Diversion		Undeveloped
4	52	15	113	53	Provincial Government	1992	Diversion		Undeveloped
4	52	15	113	4	Provincial Government	2000	Diversion	and the second second second second	Undeveloped
5	50	59	115	22	TransAlta	1959	Storage	On Stream	Existing Expanded
4	49	3	113	16	SMRID	2002	Storage	On Stream	Undeveloped

Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	Md
201	St. Mary Border Reservoir	Oldman	St. Mary River	3	. 1	25	4
202	Steinbach Reservoir	Bow	The second secon	36	19	18	4
203	Stimson Creek Dam Site	Bow	Stimson Creek/Highwood	29	16	2	5
204	Sutherland Dam	Red Deer	Berry Creek	32	22	12	4
205	Taylorville Reservoir	Oldman	Willow (Rolph) Creek	24	1	24	4
206	Tomahawk Reservoir	North Sask		15	50	6	5
207	Tongue Creek Site	Bow	Tongue Creek/Highwood	19	19	29	4
208	Torrington Dam	Red Deer	MANAGE SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEA	10	33	28	4
209	Torrington Reservoir to Bow River Diversion(2000cfs Diversion)	Red Deer	The second of th	10	33	28	4
210	Torrington Reservoir to Bow River Diversion(4000cfs Diversion)	Red Deer		10	33	28	4
211	Travers Reservoir Outlet Lowering - Concept 1	Oldman	Little Bow	32	14	21	4
212	Travers Reservoir Outlet Lowering - Concept 2	Oldman	Little Bow	32	14	21	4
213	Upper Red Deer - Logan Site	Red Deer	and the second s	10	31	9	5
214	Upper Red Deer - Site 11	Red Deer		11	31	8	5
215	Upper Red Deer -Site 12	Red Deer		8	31	8	5
216	Upper Red Deer -Site 13	Red Deer		18	31	9	5
217	Upper Red Deer -Site 14	Red Deer		18	31	10	5
218	Upper Red Deer -Site 18	Red Deer		33	33	6	5
219	Upper Red Deer -Site 19	Red Deer		25	30	9	5
220	Upper Red Deer -Site 20	Red Deer		35	30	11	5
221	Upper Red Deer -Site 8	Red Deer		5	32	6	5
222	Upper Red Deer -Site 9	Red Deer		25	31	7	5
223	Upper Red Deer -Williams Creek	Red Deer	to the first the second of the	29	31	7	5
224	Vermilion Diversion Prop. A (10,000cfs)	North Sask	and the second contraction is inspected with a second contraction of the second contraction of t	35	56	15	4
225	Vermilion Diversion Prop. A (5000cfs)	North Sask	Microsoft August 1	35	56	15	4

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
4	49	0	113	16	SMRID	2002	Storage	On Stream	Undeveloped
4	50	39	112	22	EID	1987	Storage	Off Stream	Undeveloped
5	50	23	114	15	Provincial Government	2001	Storage	On Stream	Undeveloped
4	50	55	111	30	Federal Government	1999	Storage	On Stream	Existing Expanded
4	49	3	113	5	SMRID	2002	Storage	On Stream	Undeveloped
5	53	19	114	48	Provincial Government	1970	Storage	On Stream	Undeveloped
4	50	37	114	0	Provincial Government	2001	Storage	On Stream	Undeveloped
4	51	49	113	54	Provincial Government	1968	Diversion	and a construction to the contract of the cont	Undeveloped
4	51	49	113	54	Provincial Government	1968	Diversion		Undeveloped
4	51	49	113	54	Provincial Government	1968	Diversion	and to discuss the sign for the district which the	Undeveloped
4	50	13	112	50	Provincial Government	2005	Storage	On Stream	Existing Expanded
4	50	13	112	50	Provincial Government	2005	Storage	On Stream	Existing Expanded
5	51	38	115	12	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	38	115	2	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	38	115	6	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	39	115	16	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	39	115	25	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	52	114	48	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	36	115	8	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	37	115	27	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	43	114	49	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	41	114	52	Provincial Government	1976	Storage	On Stream	Undeveloped
5	51	41	114	58	Provincial Government	1976	Storage	On Stream	Undeveloped
4	53	53	112	7	Provincial Government	1968	Diversion		Undeveloped
4	53	53	112	7	Provincial Government	1968	Diversion		Undeveloped

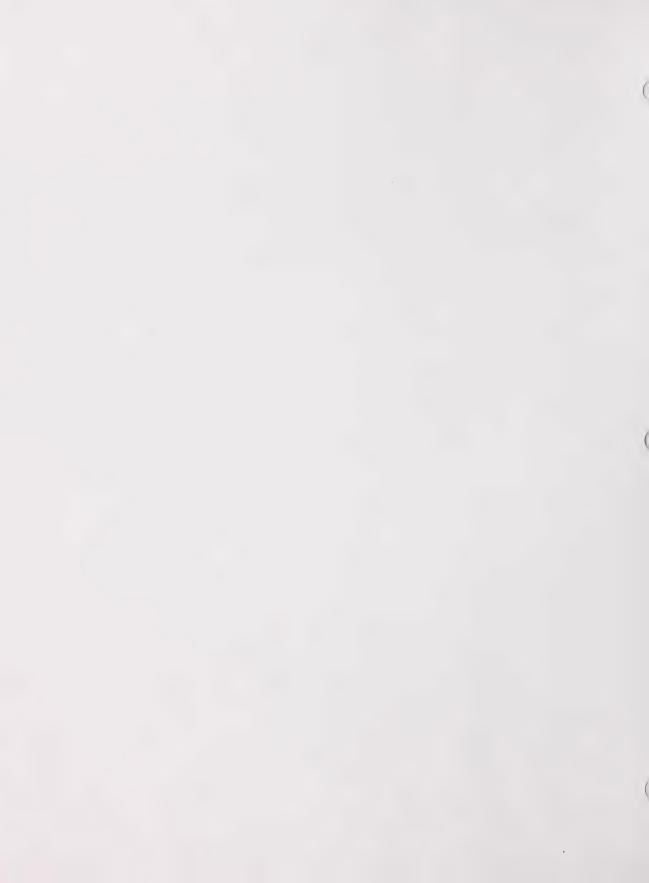
Map Ref#	Project Name	River Basin	Tributary Name	Sec	Twp	Rge	Md
226	Vermilion Diversion Prop. B (10,000cfs)	North Sask	·	35	56	15	4
227	Vermilion Diversion Prop. B (5000cfs)	North Sask		35	56	15	4
228	West Arrowwood Site 1	Bow	West Arrowwood Creek	18	21	23	4
229	West Arrowwood Site 2	Bow	West Arrowwood Creek	17	21	23	4
230	West Raymond Reservoir	Milk		25	5	21	4
231	Wildhorse Dam	Milk	Sage Creek	23	2	3	4
232	Willow Creek - Site 1	Oldman	Willow Creek	12	13	28	4
233	Willow Creek - Site 3	Oldman	Willow Creek	2	14	30	4
234	Willow Creek - Site 4 (Below Chain Lakes)	Oldman	Willow Creek	15	14	1	5
235	Willow Creek - Site 5 (South Willow Creek)	Oldman	South Willow Creek	5	14	1	5
236	Willow Creek - Site 6 (Trout Creek)	Oldman	Trout Creek	34	11	28	4
237	Women's (Squaw) Coulee Project	Bow	Women's Coulee/Highwood	28	18	29	4
238	Women's (Squaw) Coulee Site SC2	Bow	Women's (Squaw) Coulee	26	17	29	4

Mdn	Lat (Deg)	Lat (Min)	Long (Deg)	Long (Min)	Client/Owner	Study Year	Project Type	Storage Type	Status
4	53	53	112	7	Provincial Government	1968	Diversion		Undeveloped
4	53	53	112	7	Provincial Government	1968	Diversion		Undeveloped
4	50	47	113	12	Provincial Government	, 0	Storage	On Stream	Undeveloped
4	50	46	113	10	Provincial Government	0	Storage	On Stream	Undeveloped
4	49	25	112	43	SMRID	2002	Storage	Off Stream	Undeveloped
4	49	8	110	18	Federal Government	1935	Storage	On Stream	
4	50	4	113	42	Provincial Government	1986	Storage	On Stream	Undeveloped
4	50	8	113	59	Provincial Government	1986	Storage	On Stream	Undeveloped
5	50	10	114	4	Provincial Government	1984	Storage	On Stream	Undeveloped
5	50	8	114	6	Provincial Government	1984	Storage	On Stream	Undeveloped
4	49	57	113	45	Provincial Government	1984	Storage	On Stream	Undeveloped
4	50	33	113	56	Provincial Government	2001	Storage	Off Stream	Undeveloped
4	50	28	113	53	Provincial Government	1985	Storage	On Stream	Undeveloped









APPENDIX C Alberta River Basin Maps



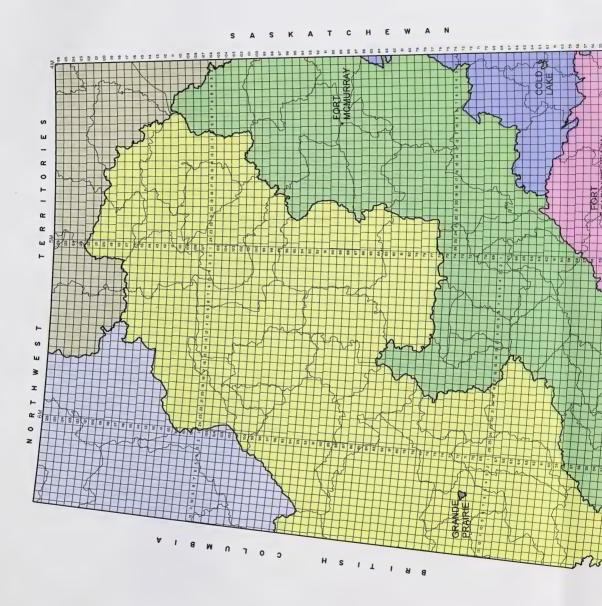
DIGITAL MAPPING - SUPPLEMENTAL INFORMATION

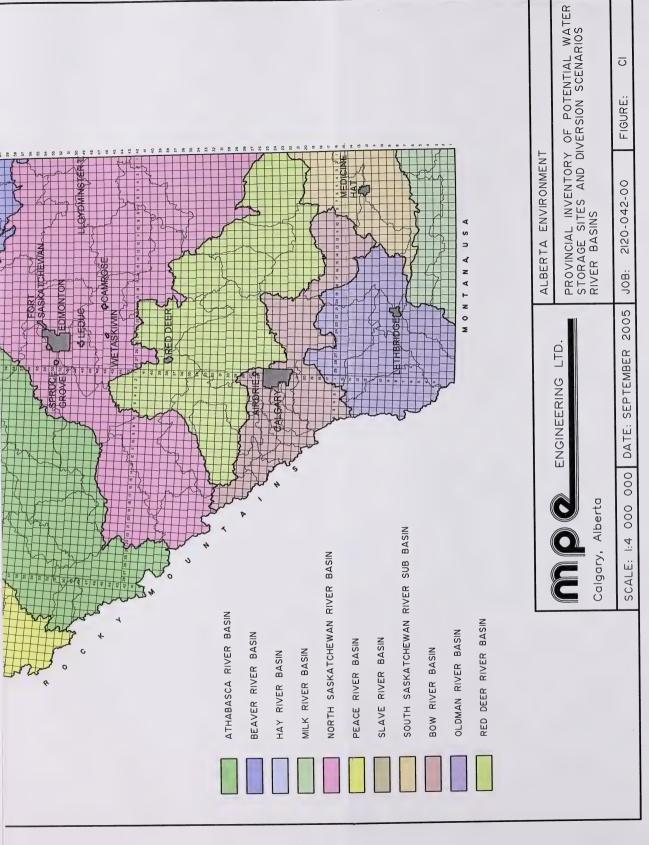
The following is a list of the significant river basin mapping information available in layers in the *AutoCAD* drawing files. Some of this information was not printed on the hard copy maps due to clarity. The *AutoCAD* files are included on the enclosed disk.

- i) Cities
- ii) Towns
- iii) Villages
- iv) Major Rivers
- v) Streams
- vi) Lakes
- vii) River Basins
- viii) Sub Basins
- ix) Township Grid
- x) Provincial Electoral Boundaries 2004
- xi) Potential Storage / Diversion Sites
- xii) Existing Storage / Diversion Sites











HAY RIVER BASIN

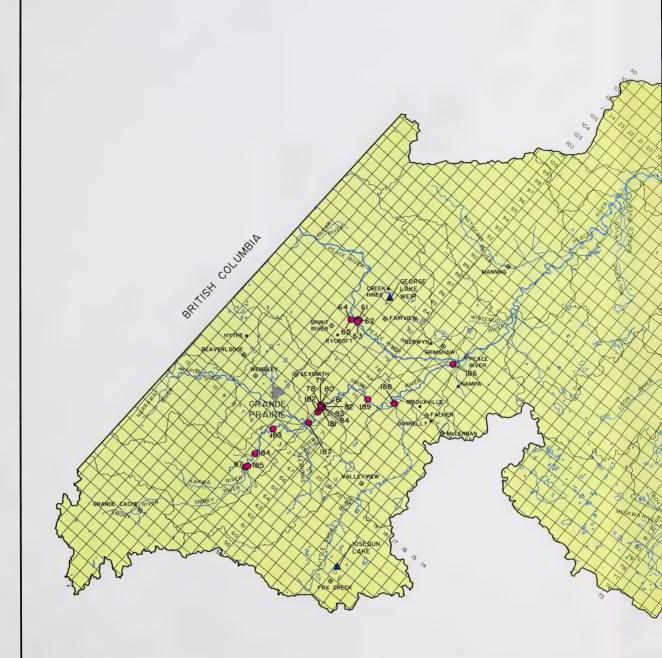
- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES





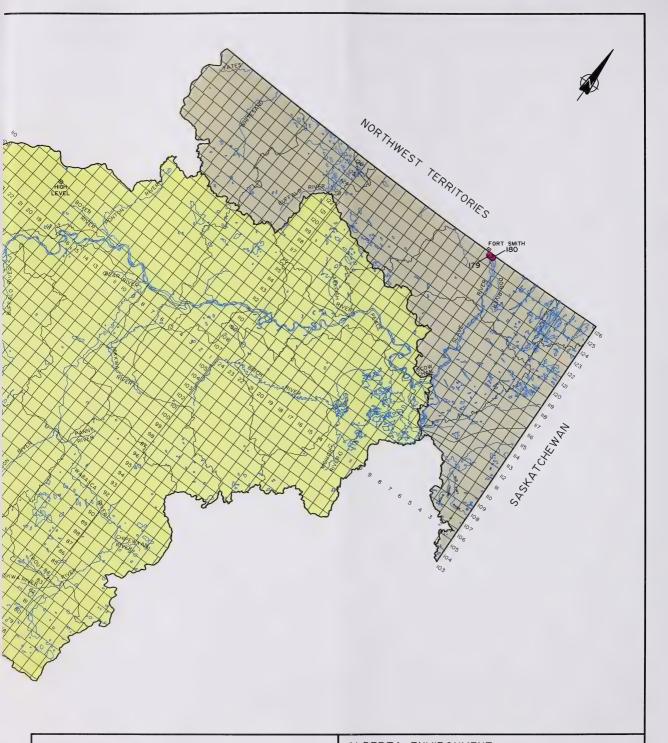
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Calgary, Alberta	PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS HAY RIVER BASIN

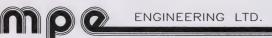
SCALE: I:I 250 000 DATE: SEPTEMBER 2005 JOB: 2120-042-00 FIGURE: C2



PEACE RIVER AND SLAVE RIVER BASINS

- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES
 - PEACE RIVER BASIN SLAVE RIVER BASIN





Calgary, Alberta

SCALE: I:2 500 000 DATE: SEPTEMBER 2005

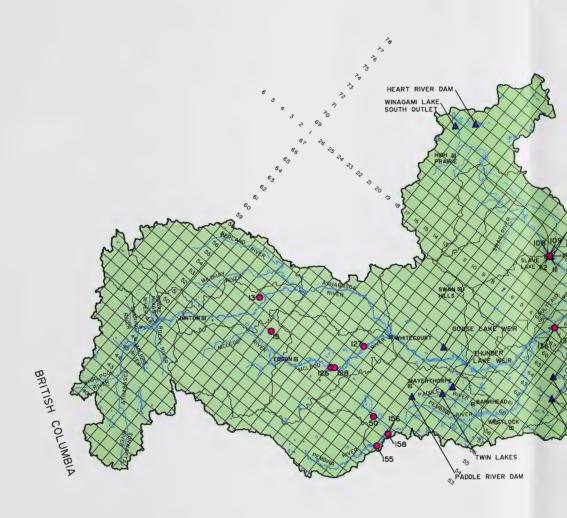
ALBERTA ENVIRONMENT

PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS PEACE RIVER AND SLAVE RIVER BASINS

JOB: 2120-042-00

FIGURE:

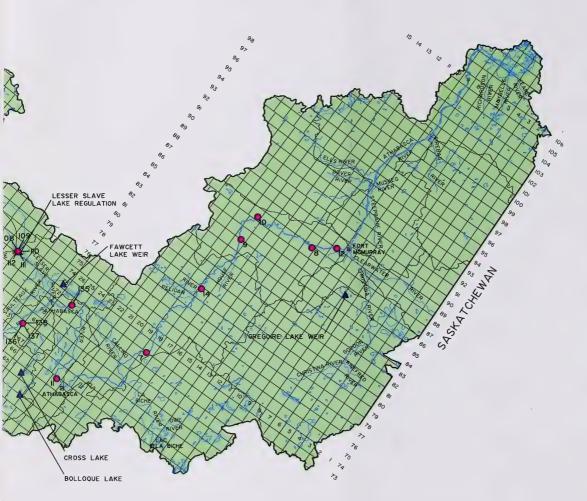
C3



ATHABASCA RIVER BASIN

- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES





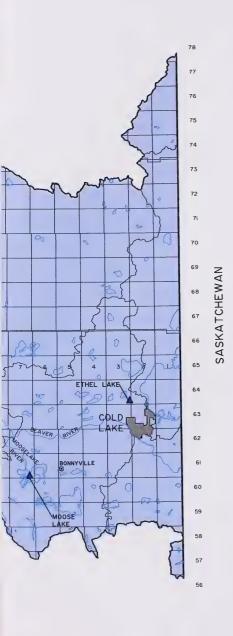
		ALBE	RTA ENVIRONMENT	-	
Calgary, Alberta	ENGINEERING LTD.	STOR	INCIAL INVENTORY AGE SITES AND DI BASCA RIVER BAS	IVERSION SO	
SCALE: 1:2 500 000	DATE: SEPTEMBER 2005	JOB:	2120-042-00	FIGURE:	C4



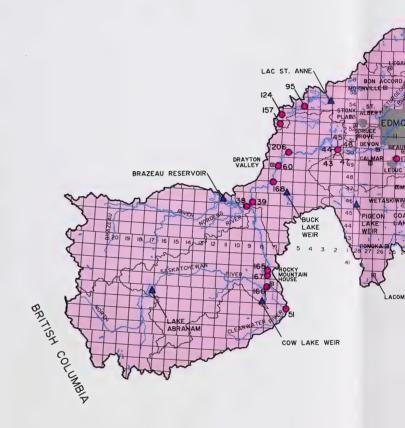
BEAVER RIVER BASIN

- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES





		ALBERTA ENVIRONMENT		
Calgary, Alberta		PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS BEAVER RIVER BASIN		
SCALE: I:I 250 000	DATE: SEPTEMBER 2005	JOB: 2120-042-00	FIGURE: C5	

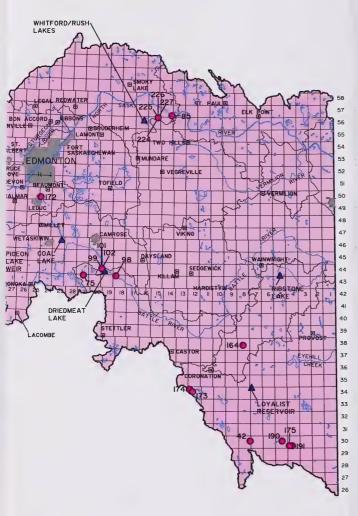


WHIT

NORTH SASKATCHEWAN RIVER BASIN

- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES





SASKATCHEWAN

mpa	ENGINEERING	LTD.

Calgary, Alberta

SCALE: 1:2 500 000

DATE: SEPTEMBER 2005

ALBERTA ENVIRONMENT

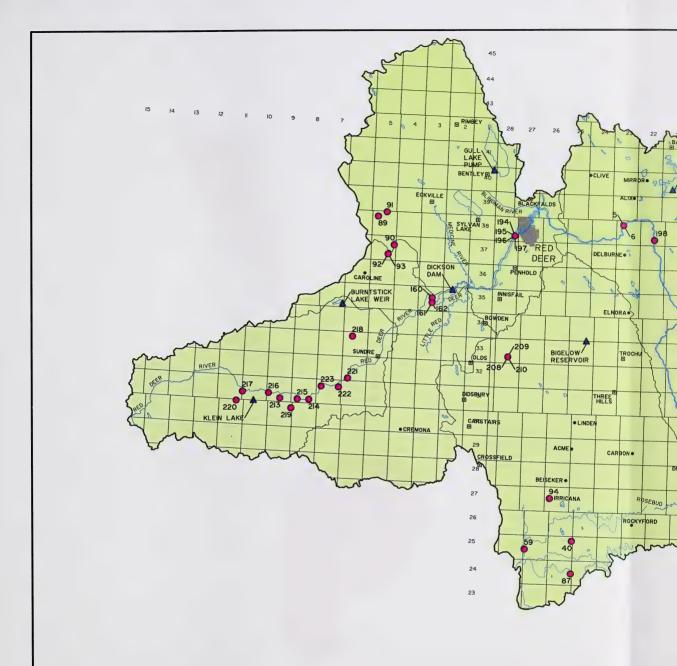
2120-042-00

JOB:

PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS NORTH SASKATCHEWAN RIVER BASIN

FIGURE:

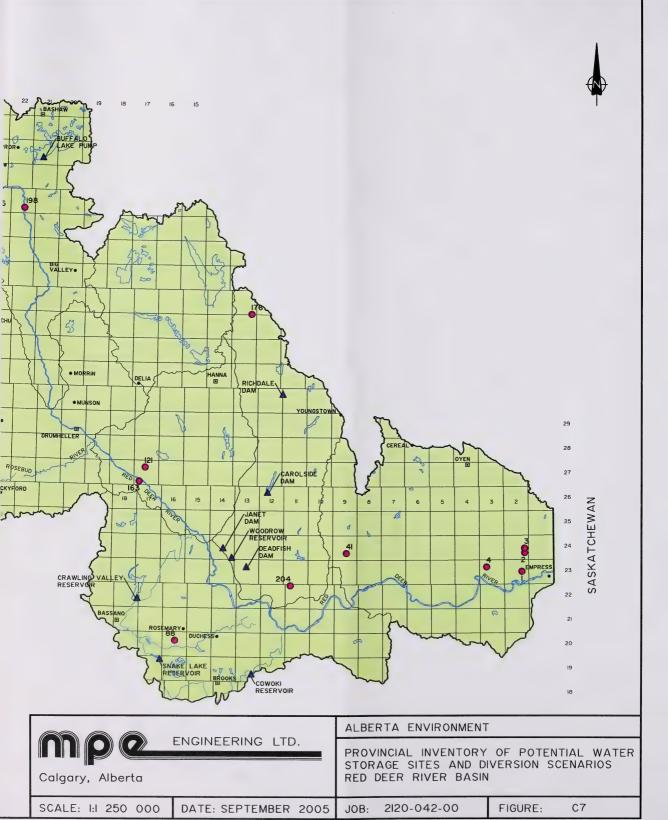
C6



S

RED DEER RIVER BASIN

- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES



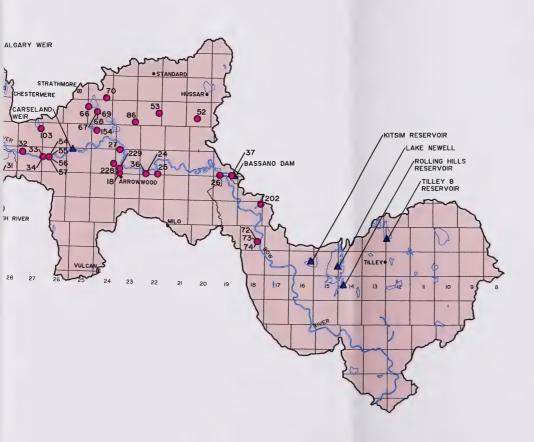


BOW RIVER BASIN

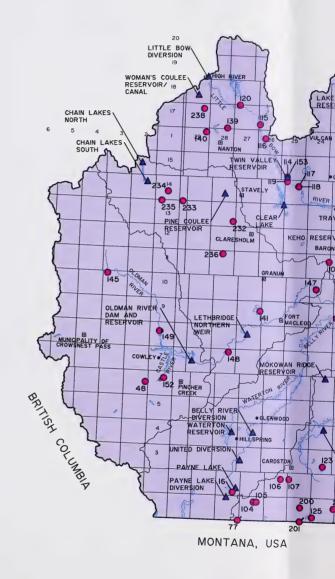
- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES



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		ALBERTA ENVIRONMENT		
Calgary, Alberta		PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS BOW RIVER BASIN		
SCALE: 1:1 250 000	DATE: SEPTEMBER 2005	JOB: 2120-042-00 FIGURE: C8		



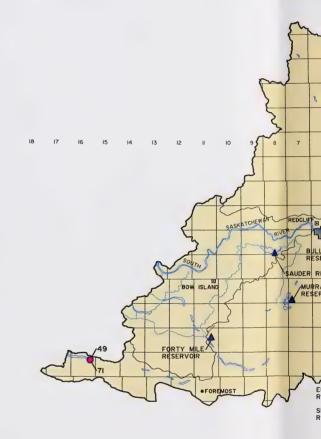
OLDMAN RIVER BASIN

- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES





		ALBERTA ENVIRONMENT			
Calgary, Alberta		PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS OLDMAN RIVER BASIN			
SCALE: I:I 250 000	DATE: SEPTEMBER 2005	JOB:	2120-042-00	FIGURE:	C9



SOUTH SASKATCHEWAN RIVER SUB BASIN

- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES





		ALBERTA ENVIRONMENT				
Calgary, Alberta		PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS SOUTH SASKATCHEWAN RIVER SUB BASIN				
SCALE: I:I 250 000	DATE: SEPTEMBER 2005	JOB:	2120-042-00	FIGURE:	CIO	

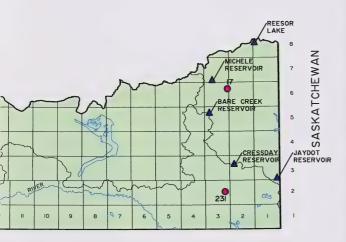


MONTANA

MILK RIVER BASIN

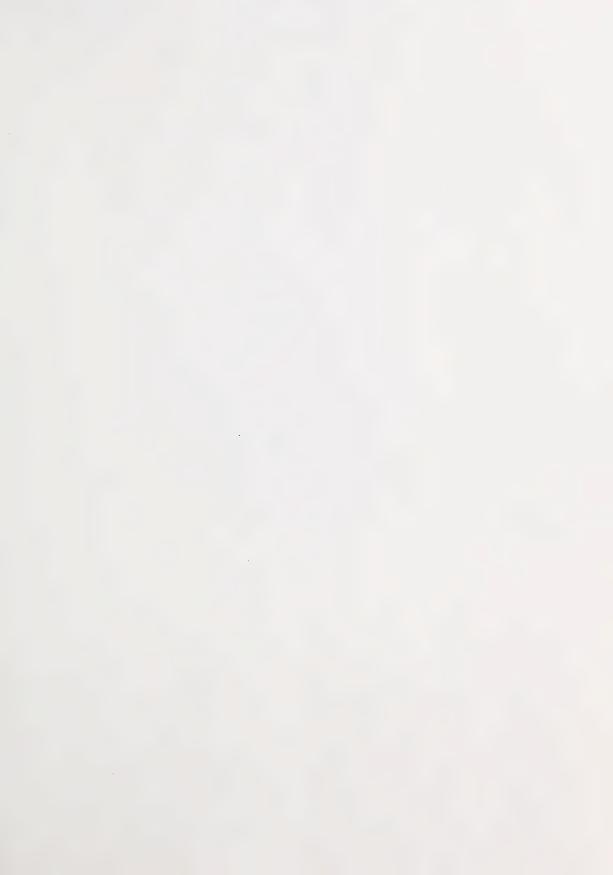
- POTENTIAL WATER STORAGE / DIVERSION SITES
- ▲ EXISTING WATER STORAGE / DIVERSION SITES



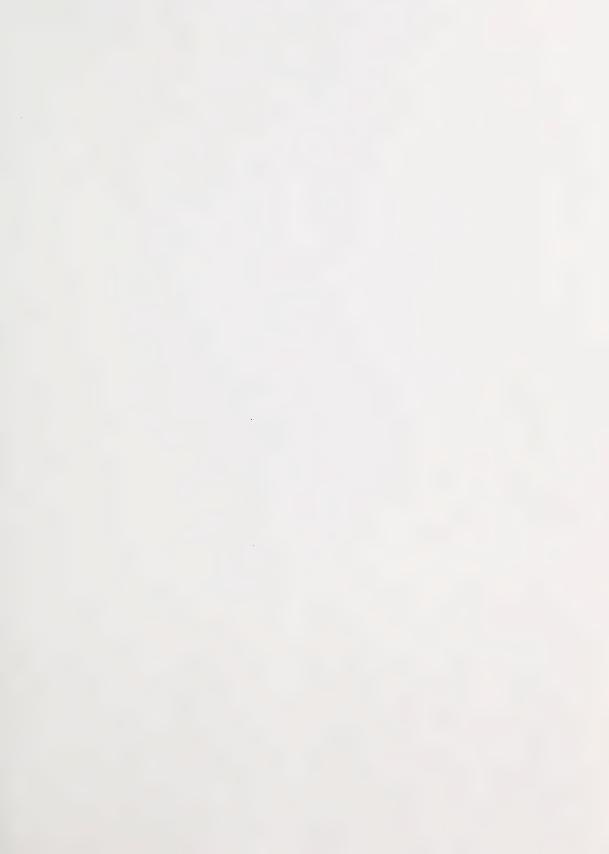


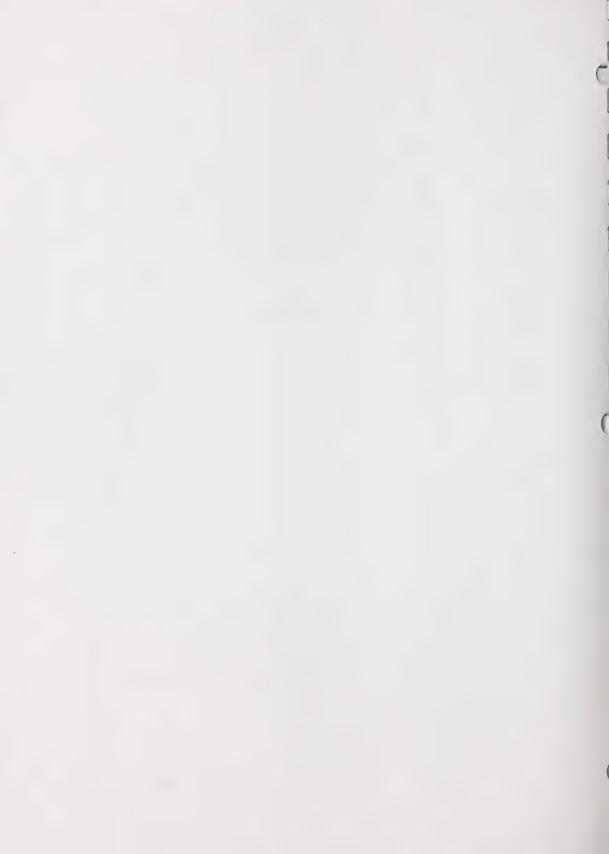
NTANA, USA

			ALBERTA ENVIRONMENT				
Calgary, Alberta		PROVINCIAL INVENTORY OF POTENTIAL WATER STORAGE SITES AND DIVERSION SCENARIOS MILK RIVER BASIN					
SCALE: I:I 250 000	DATE: SEPTEMBER 2005	JOB:	2120-042-00	FIGURE:	CII		









APPENDIX D
Installation Disk



DATABASE INSTALLATION

The database must be installed on your hard drive or network server for full functionality.

- Step 1 Use *Windows* to create a new folder to store the database.
- Step 2 Run the "Database Setup" file from the CD.
- Step 3 Browse to select the new folder created in Step 1, then press the Unzip button to install (may take a few minutes).
- Step 4 When the Unzip process is complete, close the Zip dialogue box and open the database by opening the *MS Access* application in the newly created database folder.



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